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PERSONAL.

Mr. J. L. Battle has resigned as Assistant City Engineer of Carbondale, Pa.

Mr. Wm. E. Conklin has been appointed to a position on the staff of instruction of Cornell University.

Mr. Beriah Warren has been appointed General Superintendent of the St. Louis, Troy & Eastern R. R.

Mr. Moses Williams has been elected President of the Fitchburg R. R., vice Mr. E. D. Codman, resigned.

Mr. Harrison E. Beasley has been appointed City Engineer of Peoria, Ill., vice Mr. A. D. Thompson, resigned.

Mr. Judd A. Lockwood has been appointed Assistant Bridge Engineer by the Bridge Commissioners of New York city.

Mr. Joseph H. Fichtborn, Civil Engineer, of Philadelphia, and Miss Carrie Mullen, of Greensburg, Pa., were married Oct. 3.

Mr. Chas. G. Wingate has been appointed Division Superintendent of the elevated division of the Brooklyn Heights R. R.

Mr. Blair Burwell has been appointed Division Engineer of the Sea Board Air Line Ry., with headquarters at Jacksonville, Fla.

Capt. Dillard H. Clark, U. S. A., has been detailed as Professor of Military Science and Tactics at the Pennsylvania State College.

Mr. Percival Robert Moses, Assoc. M. Am. Inst. E. E., of New York, was married on Oct. 4 to Miss Mary E. Bigler, of Gwynedd, Pa.

Mr. A. E. Babcock has been appointed Superintendent of the Coronado R. R., with office at Coronado, Cal., vice Mr. G. E. Babcock.

Dr. George F. Barker, Professor of Physics in the University of Pennsylvania, has resigned, and has been nominated Professor Emeritus.

Mr. Bret Harter has been appointed Mechanical and Electrical Engineer of the Detroit, Rochester, Romeo & Lake Orion Ry., of Detroit, Mich.

Mr. F. L. Llewellyn, 1012 Hennen Bldg., New Orleans, La., will represent the Koken Iron Works, of St. Louis, Mo., in New Orleans and vicinity.

Mr. James Newton Ker, A. M. Can. Soc. C. E., has been appointed City Engineer of Ottawa, Ont., vice Mr. John Galt, M. Can. Soc. E. E., resigned.

Mr. Llewellyn H. McLain, of Newton, Mass., has been appointed an Inspector of Railways by the Board of Railroad Commissioners of Massachusetts.

Mr. S. B. Knox has been appointed Eastern Representative of the Pittsburg Bridge Co., of Pittsburg, Pa., with office at 35 Nassau St., New York city.

Mr. G. L. Christian, Assoc. M. Am. Soc. C. E., has been appointed Assistant Engineer in the Department of Sewers, Borough of the Bronx, New York city.

Mr. J. B. Landfield has reached his home in Binghamton, N. Y., after an exploring trip to Russian Siberia in the interests of London and Russian financiers.

Mr. Edward C. Spring has recently been appointed Superintendent of the Newton & Boston Street Ry. and the Wellesley & Boston Street Ry., vice Mr. L. H. McLain.

Mr. John K. Cowen, President of the Baltimore & Ohio R. R., has been elected to succeed Mr. Thomas M. King, resigned, as President and Receiver of the Pittsburg & Western Ry.

Mr. G. M. Basford, Editor of the "American Engineer," gave an address before the engineering students of Purdue University, Oct. 17, on the subject of "After Graduation, What Next?"

Mr. Henry Wood has resigned as General Manager of the Choctaw, Oklahoma & Gulf R. R., and is succeeded by President Francis I. Gowen. Mr. Wood will retain his position as First Vice-President.

Mr. Willard A. Smith, one of the Directors of the Transportation, Civil Engineering and Army and Navy Departments of the United States Commission to the Paris Exposition, has returned to this country.

Mr. D. F. Carver has resigned his position as Engineer-in-Charge of Buildings, of the Brooklyn Rapid Transit Co., Brooklyn, N. Y., to accept a position as Chief Engineer of the Cleveland Electric Ry.

Mr. W. J. McKee, Superintendent of the Central Division of the St. Louis, Iron Mountain & Southern Ry., has been appointed Superintendent of the Arkansas Division, with office at Little Rock, Ark., vice Mr. J. D. Moore, resigned.

Mr. Hans C. Behr, M. Am. Soc. M. E., of San Francisco, Cal., has arrived at Cape Town, South Africa, where he will superintend the erection of a mining plant for the Consolidated Gold Fields of South Africa, Ltd.

Mr. G. B. Cliff has been appointed General Superintendent of the Seattle & International Ry. Mr. W. G. Pearce has been appointed General Manager, with headquarters at Seattle, Wash., vice Mr. L. S. Miller, resigned.

Mr. H. S. Cooper, formerly General Manager of the Ithaca Street Ry., of Ithaca, N. Y., has opened an office at 290 Broadway, New York city. He will engage in the business of rebuilding and developing unprofitable street railway systems.

Mr. G. H. Olmstead has been appointed Acting Superintendent of the Montana Division of the Oregon Short Line Ry., with headquarters at Pocatello, Idaho, vice Mr. L. Malloy, who has been granted a leave of absence on account of ill health.

Mr. T. C. Dickenson, formerly Master Mechanic of the Brooklyn, Bath & West End Ry., and for O'Brien & Sheehan, contractors for the Rutland-Canadian R. R., has accepted a position in the Operating Department of the Central Ry. of San Domingo, with headquarters at Puerto Plata.

Mr. Guy R. Johnson has been appointed Manager of the Duquesne furnace of the Carnegie Steel Co., at Duquesne, Pa., vice Mr. Charles McCrery, who has been appointed Superintendent of the plant and blast furnaces now in the course of construction at Sydney, N. S., for the Dominion Iron & Steel.

Mr. Horace Greely Burt, President of the Union Pacific R. R., Omaha, Neb., has had the degree of Civil Engineer conferred upon him by the University of Michigan. Mr. Burt was formerly Chief Engineer of the Chicago & Northwestern Ry., and later General Manager of the Fremont, Elkhorn & Missouri Valley and Sioux City & Pacific R. R. Cos.

Mr. O. J. Marstrand, M. Am. Soc. C. E., has been appointed Manager of the London office of the Atlas Co., of Copenhagen, Denmark. Mr. Marstrand's headquarters are at 38 Leadenhall St., London, and he is to conduct the business of the Atlas Co. in the United Kingdom and the colonies in all relating to the sale and installation of refrigerating plants and machinery. The works of the company are in Copenhagen.

OBITUARY

Mr. Fred. L. Bloss, of Kansas City, Mo., died Oct. 2. Mr. Bloss was at one time Assistant Electrician of the Metropolitan Street Ry., of Kansas City.

Mr. Edward Curtis, Assistant Superintendent of the Hartford Division of the New York, New Haven & Hartford R. R., died Oct. 11, in his 51st year.

Mr. Frank Williams, an engineer in the Department of Public Works of San Juan, Puerto Rico, was recently drowned while attempting to cross a river on horseback.

Mr. Uriah Hunt Painter, a railroad builder and capitalist, died at Long Branch, N. J., on Oct. 20. Mr. Painter was one of the builders of the New York, Philadelphia & Norfolk R. R.

Mr. James L. Rankin, Jr., Assistant Mechanical Engineer for the American Tin Plate Co., of Pittsburg, Pa., was killed by an electric car while horseback riding in Pittsburg, Oct. 13. Mr. Rankin was 23 years of age, and a graduate of Lehigh University.

Mr. Harry Leroy Bridgman, M. Am. Inst. M. E., of Blue Island, Ill., died Oct. 4. Mr. Bridgman was a graduate of the Government School of Mines at Clausthal, Germany. He was one of the first in the country to perfect the refining of copper by the electrolytic process. His experience in mining was mostly obtained at Leadville, Colo., and in Mexico.

Mr. George B. Berger, prominent in the iron industry of the Chenango Valley, recently died in New Castle, Pa. Mr. Berger was born in Pittsburg 51 years ago, and was educated at the Pennsylvania Military Academy. Upon leaving school he entered the iron business, and became General Manager of the Raney & Berger Iron Co. He was a director of the Chenango Valley Steel Co. previous to its absorption by the National Steel Co. last year.

Mr. John Lott Nostrand, a Civil Engineer of Brooklyn, N. Y., died Oct. 19, from pneumonia, in his 71st year. Mr. Nostrand was born in Springfield, N. Y. He was City Surveyor of Brooklyn from 1854 until his death. He was also a charter member, a Director and Chief Engineer of the Brooklyn Elevated R. R. Co., and drew the plans for that line. Mr. Nostrand was nominated for Congress in 1856, 1858 and 1894. He was twice nominated for State Senator, Assemblyman and Supervisor, and three times for Alderman, but in each case declined to run for office.

Mr. John A. Trefts, a member of the firm of Farrar & Trefts, boiler and engine builders, of Buffalo, N. Y., died Oct. 12. Mr. Trefts was born in Wurtemburg, Germany, in 1823, and came to this country eight years later. He invented the drilling jars used in drilling oil wells, and later made many improvements in the methods of drilling. He later became Superintendent of the firm of George W. Tifft & Sons, engine and boiler manufacturers of Buffalo, and during the sixties went in partnership with Mr. C. M. Farrar to establish the firm now bearing their names.

ENGINEERING SOCIETIES.

COMING MEETINGS.

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.

NEW YORK ELECTRICAL SOCIETY.
Oct. 30. Symposium: "The Paris Exposition and the Paris Electrical Congress," by Carl Hering, A. E. Kennelly, S. B. Crocker, C. O. Mailloux and T. C. Martin. Secy., George H. Guy, 23d St. and Lexington Ave., New York city.

WESTERN SOCIETY OF ENGINEERS.
Oct. 31. Paper: "Wireless Telegraphy," by W. S. Johnson. Secy., Nelson L. Litten, Monadnock Block, Chicago, Ill.

CHICAGO ELECTRICAL ASSOCIATION.
Nov. 2. Paper: "Roentgen Rays," by A. M. Blumenthal. Secy., Cloyd Marshall, 1610 Monon Bldg., Chicago, Ill.

RAILWAY SIGNALING CLUB.
Nov. 13. Annual meeting at St. Louis, Mo. Secy., C. O. Tilton, West Milwaukee, Wis.

ROADMASTERS' ASSOCIATION OF AMERICA.
Nov. 13. Annual meeting at Los Angeles, Cal. Secy., J. B. Dickson, Sterling, Ill.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 15 and 16. Annual meeting in New York city. Secy., Francis T. Bowles, 12 West 31st St., New York city.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 4 to 7. Annual convention in New York city. Secy., F. R. Hutton, 12 West 31st St., New York city.

TECHNISCHER VEREIN VON PITTSBURG.—The following officers were elected at the general meeting held on Oct. 12: President, H. Laub; Vice-President, Dr. K. F. Stahl; Secretary, H. W. Bernard; Ass't. Secretary, S. G. Brigel; Treasurer, O. H. Rosenbaum; Librarian, A. Kusebauch; Directors, Ph. A. Lange, E. F. Harder and C. Mercader. H. W. Bernard, Secy.

AMERICAN STREET RAILWAY ASSOCIATION.—At the recent annual convention at Kansas City, Mo., the following officers were elected: President, Walton H. Holmes, Kansas City; First Vice-President, H. H. Vreeland, New York city; Second Vice-President, N. H. Heft, Meriden, Conn.; Executive Committee, John M. Roach, Chicago; Frank L. Fuller, Wilkesbarre, Pa.; Geo. W. Baumhoff, St. Louis, Mo.; John R. Graham, Quincy, Mass., and John Harris, Cincinnati, O. The next annual convention will be held in New York city.

AMERICAN GAS-LIGHT ASSOCIATION.—At the 28th annual meeting held at Denver, Colo., Oct. 18, the following officers were elected: President, E. D. Pratt, Des Moines, Ia.; First Vice-President, Wm. E. Beale, New York; Second Vice-President, Alton S. Miller, New York; Third Vice-President, Rollin Norris, Philadelphia; Secretary-Treasurer, A. E. Forstall, New York. Members of the Council: Charles F. Pritchard, Lynn, Mass.; James Ferrier, Columbus, Ga.; George McLean, Dubuque, Ia.; Wm. A. Miller, Cincinnati, O.

ENGINEERS' CLUB OF PHILADELPHIA.—At the meeting of Oct. 6 a communication was presented from the Engineers' Society of Western New York requesting the co-operation of the club in the establishment of a joint congress and engineering exhibit at the Pan-American Exposition. The matter was referred to the Board with a favorable recommendation. At the same meeting a paper on the "Transmission of Power by Compressed Air" was presented by Mr. Fred. W. Gordon. At the regular meeting of Oct. 20 a paper on "The Strength of the Ideal Column, and Its Relation to the Safe Load on a Practical Column; Some New Formulas and Their Comparison with Older Ones," was read by Mr. Carl G. Barth.

L. F. Rondinella, Secy.

NEW PUBLICATIONS.

THE NATURE AND YIELD OF METALLIFEROUS DEPOSITS. By Bennett H. Brough, Member of Council Institution of Mining Engineers. London: Wm. Trounce, 10 Gough Square, Fleet St., London. 8vo.; paper; pp. 54. 40 cts.

This is a reprint of four lectures delivered before the Society of Arts of Great Britain in January and February last. The lectures are a general review of the world's deposits of the principal metals of commerce.

A DEEP WATERWAY FROM THE GREAT LAKES TO THE GULF OF MEXICO.—Reprint of papers read before the Western Society of Engineers. With introduction by the Illinois River Valley Association. Issued by the Association. Secy., R. R. Bourland, Peoria, Ill. Paper; 8vo.; pp. 75.

This pamphlet contains the following papers: "Reservoirs and the Control of the Lower Mississippi (Gulf of Mexico to Cairo)," by James A. Seddon; "The Lakes and Gulf Waterway (Cairo to Lockport)," by Lyman E. Cooley, and "The Sanitary and Ship Canal of Chicago (Lockport to Lake Michigan)," by Isham Randolph.

SEWAGE PURIFICATION.—The Bacterial Sewage Purification Co., 149 Broadway, New York city. Paper; 5 x 6 ins.; pp. 14; illustrated.

After outlining the theory and practice of the bacterial processes of sewage purification the company says that the first and second stages of its method of treatment are carried out in a biological tank, the effluent from which is submitted directly to subsurface land treatment, or to such treatment after passing through one or more contact beds, according to the degree of purification desired. Favorable testimonials are presented by persons who have had the system applied to the sewage of country houses.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x5 ins., 6x9 ins., and 9x12 ins.)

FILING CABINETS.—The Globe-Wernicke Co., 1124 W. 8th St., Cincinnati, O. Paper; 3 x 5 ins.; pp. not given; illustrated.

ELEVATOR BUCKETS.—Cleveland Elevator Bucket Co., Cleveland, O. Paper; 3½ x 6 ins.; pp. 10; illustrated.

This is a catalogue and price list of the steel elevator buckets made by the company named.

FIRE BRICK.—The Crown Fire Clay Co. and the Royal Sewer Pipe & Fire Brick Co., Akron, O. Paper; 3 x 5 ins.; pp. 35; illustrated.

This pamphlet describes various sorts of fire brick and, in addition, it contains some useful information for computing brickwork quantities.

SURVEYORS' BOOTS.—H. J. Putman & Co., Minneapolis, Minn. Paper; 5 x 7 ins.; pp. 16; illustrated.

This circular describes the materials used and methods of making the various styles of boots and shoes for surveyors, contractors, sportsmen, explorers, etc., of which the firm named makes a specialty.

STEAM JOINT CLAMP.—James McCrea & Co., 15 South Canal St., Chicago, Ill. Paper; 6 x 8 ins.; illustrated.

This pamphlet describes a clamp to be applied to leaky steam joints, and the testimonials show that the device has been extensively used. A machine for boring holes in floor beams for electric wiring, and operated by a man standing on the floor below, is also described.

ROLLER MILLS.—The Raymond Bros.' Impact Pulverizer Co., 1402 Monadnock Block, Chicago, Ill. Paper; 6 x 9 ins.; pp. 32; illustrated.

The Raymond mill, which has been described in our columns, has the revolving head, fitted with crushing rolls, whose beveled heads work against a crushing ring. The mill is designed for work on hard ore or rock, dried bone, shells, herbs, burnt clay, etc.

DIAMOND DRILLS.—American Diamond Rock Drill Co., New York, N. Y. Paper; 7 x 10 ins.; pp. 44; illustrated.

This is an excellent descriptive catalogue of the construction, operation and maintenance of diamond drills and drilling machinery. Each of the different types and sizes of drills made by the company named is briefly described, with details of weight, dimensions and capacity, and a large amount of other useful information respecting these machines and their work is given.

IRON AND STEEL TOOLS AND MACHINE TOOLS.—Scully Steel & Iron Co., 136 Fulton St., Chicago, Ill. Paper; 4½ x 7 ins.; pp. 120.

This is a catalogue and price list of plate, rivets, bolts, bars, shafting, corrugated sheets, boiler tubes, etc. The tools include tube cutters, expanders and welders, steam hammers and riveters and a general line of tools for boiler, tank and plate work. There are also tables of weights of material; diagrams of riveted joints for boilers, etc.

BLOWERS AND DRYING APPARATUS.—Andrew & Johnson Co., Chicago, Ill. Paper; 6½ x 8 ins.; pp. 70; illustrated.

This is a catalogue and price list of blowing and exhausting fans for heating, ventilating, and the removal of dust and shavings. Some of the fans are driven direct by Johnson high-speed steam engines. Drying kilns for lumber, blast heaters, steam pipe sleeves, blast gates, etc., are also included, and there are tables of miscellaneous information.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Oct. 25.	Paving, etc.,	New York, N. Y.	Oct. 18
Oct. 26.	Stable building,	West Point, N. Y.	Oct. 11
Oct. 27.	Granite curbing,	Washington, D. C.	Oct. 11
	Advertised, Engineering News, Oct. 11.		
Oct. 29.	Fireproofing building,	Cleveland, O.	Oct. 18
Oct. 30.	Electric pumps,	Montreal, Que.	Oct. 11
Oct. 30.	Hydraulic dredge,	Detroit, Mich.	Sept. 27
	Advertised, Eng. News, Sept. 27 and Oct. 4.		
Oct. 29.	Addition to school, etc.,	New York, N.Y.	Oct. 25
Oct. 30.	Paving,	Jersey City, N. J.	Oct. 25
Oct. 30.	Fire hydrants,	Jersey City, N. J.	Oct. 25
Oct. 30.	Sewage disposal plant,	Central Islip, N.Y.	Oct. 25
	Advertised, Engineering News, Oct. 25.		
Oct. 30.	Fire apparatus,	Crookston, Minn.	Oct. 25
Oct. 30.	Electrical machinery,	Portsmouth, N. H.	Oct. 25
Oct. 30.	Electrical supplies,	Philadelphia, Pa.	Oct. 25
Oct. 30.	Hoisting elevator,	Pensacola, Fla.	Oct. 25
Oct. 31.	Laboratory building,	New York, N. Y.	Oct. 25
Oct. 31.	Electric light line,	Baltimore, Md.	Oct. 25
Oct. 31.	Sewers,	Brooklyn, N. Y.	Oct. 25
Oct. 31.	Macadam road,	East Chicago, Ind.	Oct. 25
Oct. 31.	Excavating,	Cincinnati, O.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Oct. 31.	Pumping plant, etc.,	Fort Mott, N. J.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Oct. 31.	Water tower,	Washington, D. C.	Oct. 18
	Advertised, Eng. News, Oct. 18 and 25.		
Nov. 1.	Hospital buildings,	Howard, R. I.	Oct. 18
Nov. 1.	Pumping engine,	Harrisburg, Pa.	Oct. 11
Nov. 1.	Lock,	Cincinnati, O.	Oct. 11
	Advertised, Eng. News, Oct. 11 to 25.		
Nov. 1.	Electric railways,	Philadelphia, Pa.	Oct. 4
Nov. 1.	Retaining wall,	Cincinnati, O.	Oct. 25
Nov. 1.	School house,	New Virginia, Ia.	Oct. 25
Nov. 1.	Sand dryer,	Reading, Pa.	Oct. 25
	Advertised, Engineering News, Oct. 25.		
Nov. 2.	Macadam paving,	Altoona, Pa.	Oct. 25
Nov. 2.	Wharf,	Wiarton, Ont.	Oct. 18
Nov. 3.	Steamer,	New Shoreham, R. I.	Oct. 18
	Advertised, Eng. News, Oct. 18 and 25.		
Nov. 3.	Well, etc.,	Bremerton Naval Stat'n, Wash.	Oct. 4
Nov. 3.	Sewer,	West Roxbury, Mass.	Oct. 11
	Advertised, Eng. News, Oct. 11 and 18.		
Nov. 3.	Pipe sewers (8,000 ft.),	Lakewood, O.	Oct. 11
Nov. 3.	Road rollers,	Madrid, Spain	Oct. 25
Nov. 4.	Electric railway,	Philippopoli, Bulgaria	Sept. 27
Nov. 5.	Removing rock,	New York, N. Y.	Oct. 4
	Advertised, Eng. News, Oct. 4 to 25.		
Nov. 5.	Electric plant,	Houston, Tex.	Sept. 13
Nov. 5.	Basement of U. S. building,	Helena, Mont.	Oct. 11
Nov. 5.	Water bonds,	Sheridan, Wyo.	Oct. 11
Nov. 5.	Timber berth,	Ottawa, Ont.	Oct. 18
Nov. 5.	Bridge,	Leavenworth, Kan.	Oct. 18
Nov. 5.	Building repairs, etc.,	New York, N. Y.	Oct. 25
Nov. 5.	Ambulances, etc.,	New York, N. Y.	Oct. 25
Nov. 5.	Steel truss bridge,	Fort Scott, Kan.	Oct. 25
Nov. 5.	Block paving,	Toledo, O.	Oct. 25
Nov. 6.	U. S. building,	Portland, Ore.	Oct. 25
Nov. 6.	Railway work,	France.	Oct. 25
Nov. 6.	Spile dock,	Jamestown, R. I.	Oct. 25
	Advertised, Engineering News, Oct. 25.		
Nov. 6.	Water bonds,	Bloomfield, Neb.	Oct. 18
	Advertised, Engineering News, Oct. 18.		
Nov. 6.	Water-works,	Bloomfield, Neb.	Oct. 18
	Advertised, Engineering News, Oct. 18.		
Nov. 7.	Gravel road,	Atlantic City, N. J.	Sept. 20
	Advertised, Eng. News, Sept. 20 to Oct. 25.		
Nov. 7.	Combination bridge,	San Jose, Cal.	Oct. 25
Nov. 7.	Pipe sewer	Summit, N. J.	Oct. 25
Nov. 8.	Water pipe trenches, etc.,	Yonkers, N. Y.	Oct. 25
Nov. 8.	Iron bridges (2),	Seneca, Kan.	Oct. 25
Nov. 8.	Bridge superstructure,	Madison, Ind.	Oct. 25
Nov. 8.	Lock work,	Alexandria, Egypt	Oct. 18
Nov. 8.	Wharf and tramway,	San Francisco, Cal.	Oct. 18
Nov. 8.	Electric lighting,	Velez Blanco, Spain	Oct. 18
Nov. 9.	Pipe sewer,	Newark, O.	Oct. 18
Nov. 9.	Railway work,	Indo-China (Paris)	Sept. 27
Nov. 9.	Plumbing, etc.,	Portland, Ore.	Oct. 11
Nov. 9.	Shore protection,	Jamestown Isld., Va.	Oct. 11
	Advertised, Eng. News, Oct. 11 to Nov. 1.		
Nov. 9.	Well,	Albert Lea, Minn.	Oct. 18
Nov. 9.	Rebuilding bridge,	Cleveland, O.	Oct. 25
Nov. 10.	Heating plant,	Michigan City, Ind.	Oct. 25
Nov. 10.	Naval building,	Bremerton, Wash.	Oct. 25
Nov. 10.	Cables,	League Island, Pa.	Oct. 25
Nov. 10.	Belting, nails, cement, etc.,	Cairo, Egypt	Oct. 11
Nov. 12.	Heating plant,,	Syracuse, N. Y.	Oct. 11
Nov. 12.	Sewers,	Boston, Mass.	Oct. 25
	Advertised, Eng. News, Oct. 25 and Nov. 1.		
Nov. 12.	Bridge,	Napoleon, N. Dak.	Oct. 25
Nov. 12.	Wooden bridge,	Wytheville, Va.	Oct. 25
Nov. 13.	Electrical machinery,	Puget Sound, Wash.	Oct. 25
Nov. 13.	Naval supplies,	Washington, D. C.	Oct. 25
Nov. 13.	Pipe and castings,	Cincinnati, O.	Oct. 18
	Advertised, Eng. News, Oct. 18 to Nov. 1.		
Nov. 14.	Electric railway,	Lahore, India	Aug. 30
Nov. 14.	Plans for jail,	Merced, Cal.	Oct. 4
Nov. 14.	Bridge,	Montrose, Colo.	Oct. 25
Nov. 14	Barracks, etc.,	Fort Mead	Oct. 25
Nov. 15.	Bridge,	Paris, France.	Oct. 25
Nov. 15.	Plans for school house,	Natchez, Miss.	Oct. 18
Nov. 15.	Battleships,	Washington, D. C.	July 26
Nov. 15.	High school building,	Syracuse, N. Y.	Oct. 18
Nov. 15.	Bridge work,	Newcastle-upon-Tyne, Eng.	Oct. 18
Nov. 16.	Railway materials, etc.,	Indo-China (Paris)	Sept. 27
Nov. 17.	Addition to jail,	Fresno, Cal.	Oct. 25
Nov. 19.	U. S. building,	Salem, Ore.	Oct. 18
Nov. 19.	School house,	Cincinnati, O.	Oct. 25
Nov. 20.	Water-works dam,	Pittsfield, Mass.	Oct. 25
	Advertised, Eng. News, Oct. 25 to Nov. 8.		
Nov. 20.	Electric lighting,	Portland, Ore.	Oct. 25
Nov. 20.	Cars, wheels, etc. (London),	India	Oct. 25
Nov. 20.	U. S. building,	Helena, Mont.	Oct. 25
Nov. 20.	Plumbing, etc.,	St. Paul, Minn.	Oct. 25
Nov. 20.	Foundation for building,	Canton, O.	Oct. 18
Nov. 21.	Basement for custom house,	New York	Oct. 25
Nov. 23.	Electric plant,	Belfast, Ireland	Oct. 24
Nov. 23.	Dredging, etc.,	Philadelphia, Pa.	Oct. 25
	Advertised, Eng. News, Oct. 25 to Nov. 15.		
Nov. 24.	Sewer,	Washington, D. C.	Oct. 25
	Advertised, Engineering News, Oct. 25.		
Nov. 25.	Street cleaning machine,	Kensington, Eng.	Sept. 13
Nov. 27.	Tramway,	Zaragoza, Spain	Oct. 18
Nov. 27.	Sea-going dredge,	Charleston, S. C.	Oct. 18
	Advertised Eng. News, Oct. 18-25, Nov. 8-15.		
Nov. 27.	Dredging machinery,	Charleston, S. C.	Oct. 18
	Advertised, Eng. News, Oct. 18-25, Nov. 8-15.		
Nov. 28.	Naphtha concessions,	Balkan, Russia	Oct. 25
Nov. 30.	Scaling ladders,	San Francisco, Cal.	Oct. 25
Nov. 30.	Port works,	Recife (Rio), Brazil	Sept. 27

RAILWAYS.

AMERICAN-MEXICAN PACIFIC.—Lyman Bridges, Ch. Engr. and Gen. Mgr., San Francisco, Cal., informs us that this company has let a contract to Wm. C. Bradbury, of Denver, Colo., to build 65 miles of standard-gage road from Tucson to Calabasas, Ariz., connecting, via Nogales, with Guaymas, Mex., on the Pacific Ocean.

ARKANSAS SOUTHWESTERN. — The Southwestern Construction Co. of Little Rock, has been incorporated in Arkansas with a capital stock of $36,000, to construct the extension of this line from Pike City to Murfreesboro, a distance of three miles. J. A. Woodson, Pres., Little Rock.

BALTIMORE & OHIO.—Douglass Bros., contractors, Monrovia, Md., will sublet contracts for grading 5,000 to 30,000 cu. yds., as stated in our advertising columns.

CANADIAN PACIFIC.—It is announced that the company will build a 1,000-ft. tunnel on the Crow's Nest Pass line, to overcome a long loop in the new line near Fernie, B. C., the center of the Crow's Nest Pass coal district. Contractors are said to be figuring on the work. W. F. Tye, Ch. Engr. of Construction, Winnipeg, Man.

CHICAGO, BURLINGTON & QUINCY.—The company's plans for western building next year are reported to be as follows: The building of a line from Kearney, Neb., to Bridgeport; the building of a route to the Yellowstone Park via the Sweetwater Valley, in Wyoming; and the completion of the line westward from Guernsey to Ogden, with the establishment of a large coal camp at Elk Mountain. Thos. Jordan, Asst. Engr., Chicago.

CHICAGO, JEFFERSON CITY & PACIFIC.—It is stated that this company has been organized to build a railway in the mineral fields of Morgan county, Mo. The Chicago & Alton road is said to be interested in the project. J. C. Fisher, Busch Bldg., Jefferson City, Mo., is interested.

CHICAGO & WESTERN INDIANA.—This company is said to be considering the proposition of hauling all passenger trains into the Dearborn Station, Chicago, with electric motors in place of the steam locomotives. The object is to abate the smoke nuisance. E. H. Lee, Engr.

DELAWARE, LACKAWANNA & WESTERN.—The improvements being made to this line are progressing rapidly, according to reports. President Truesdale has plans for the construction of new bridges throughout the entire system. The new structures are of steel and are now supplanting the old structures. The company proposes to eliminate a number of bad grade-crossings at various points on the road. A new station and roundhouse will be built at Binghamton, N. Y., where track elevation has already been started. It is reported probable that a number of new locomotives will be ordered. W. H. Whalen, Pur. Agt., New York.

GEORGIA PINE.—R. B. Coleman, Gen. Supt., Bainbridge, Ga., reports that a preliminary survey has been made for the proposed extension through Allapulgus, Ga., Quincy and Tallahassee, Fla., about 42 miles, and contracts will soon be let. The construction capital is secured. R. E. Hardaway, Ch. Engr., Bainbridge.

GRAND TRUNK RY. SYSTEM.—Reports state that Rogers & Taylor, contractors, Montreal, have been awarded the contract for double-tracking this line from Hamilton to Niagara Falls, Ont., the cost of which will be about $500,000.

GREAT MARL LAKE.—The contract for building this line has been let to Crage & Tench, contractors, 61 Terrace, Buffalo, N. Y. The road is a branch of the Chicago & West Michigan R. R., and runs from Newaygo, Mich., to the Great Marl Lake, and is to be used for the transportation of marl from the lake to the new cement works at Newaygo. Daniel McCool, Pres. and Ch. Engr., St. Louis, Mo.

JACKSON, COLUMBUS & NORTHEASTERN.—The directors of this company met in Jackson, Miss., Oct. 16, and decided that an engineer be engaged to make a preliminary survey for the company's line. Newman Cayce, Columbus, Miss., and Presley Graves, Carthage, Miss., are interested.

GULF, COLORADO & SANTA FE.—C. F. W. Felt, Ch. Engr., Galveston, Tex., informs us that preliminary surveys have been made for the extension to Silsbee Junction, via Kountze, about 50 miles, on the Montgomery branch, and locations are now under way. The contract for the east half has been let to John Scott & Sons, contractors, St. Louis, Mo.; and the west half to Ricker & Lee, contractors, Cleveland, Tex.——Sub-contractors are wanted by Ricker & Lee, contractors, Cleveland, for 500,000 cu. yds. of grading; material all borrow and waste. Free transportation for outfits and men is offered over this road.

LOS ANGELES & SALT LAKE.—Articles of incorporation will soon be filed by this company to build the projected railway from Los Angeles, Cal., to Salt Lake City, Utah. Surveys are now under way from Los Angeles to San Bernardino, Cal. No contracts have yet been [illegible] It is thought that the company will be capitalized at $[illegible]000,000. W. A. Clark, Pres., Helena, Mont.; R. [illegible] Kerens, Vice-Pres., St. Louis, Mo.; F. K. Rule, Gen. [illegible] Los Angeles Terminal Ry., Los Angeles, is also interested.

LOUISIANA & ARKANSAS.—The contract for building a 12-mile branch of this line from Shady Grove south, [illegible] 15 miles from Ashland, La., south, has been let. W. [illegible] Buchanan, Pres., Texarkana, Tex.

MARQUETTE & SOUTHEASTERN.—H. R. Harris, Ch. Mgr., Marquette, Mich., informs us that the contracts for building the company's 25-mile road will probably be let about Jan. 1. The locations are now being made, and the necessary capital is secured. J. F. D. Emiling, Ch. Engr., Marquette.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—J. W. Thomas, Pres., Nashville, Tenn., is said to have announced that the road will be extended from Bonair to Green Place, Tenn., about 17 miles. The directors will soon meet and order the construction started.

OHIO RIVER & LAKE ERIE.—An extension of three miles is to be built to this line in Ohio, to connect with newly opened coal mines. The extension will be ready for operation in about 90 days. H. D. Emerson, Vice-Pres. and Supt., Alliance, O.

PENNSYLVANIA.—It is stated that the Sharon Steel Co., of Sharon, will soon begin the construction of a new line of railway from their works in South Sharon to Leesburg, Mercer county, where their mines are located. The line, which will be 20 miles in length, will touch at Bethel, New Wilmington and Volant, and will cost about $500,000.

PENNSYLVANIA R. R.—A. J. Cassatt, Pres., is reported to have said that the Long Island R. R. is to be developed by constructing two or three tunnels under the East River and New York Harbor, by building extensive terminals in Brooklyn and establishing a belt line for the breaking up of freight trains, and by developing the suburban districts, both for manufacturing and sea shore resort purposes.

PITTSBURG & WESTERN.—Reports state that this system is to be double-tracked throughout. W. T. Manning, Ch. Engr., Baltimore, Md.

QUEBEC & NEW BRUNSWICK.—John Costigan, Pres., Ottawa, Ont., informs us that the subsidy voted this company at the last session of the Canadian Parliament amounted to about $200,000, and that construction will be started next spring. The line will be about 130 miles in length, and will extend principally through unsettled country.

ST. LOUIS SOUTHWESTERN OF TEXAS.—Surveys are being made for an extension to Hamilton, Tex., on which work will soon be started. M. L. Lynch, Engr., Tyler, Tex.

SOUTHPORT, WILMINGTON & WESTERN.—The plan to build the line of railway between Southport and Wilmington, N. C., has been revived. Langstaff Johnson, Civil Engr., of Richmond, Va., is said to have been engaged to make surveys in the near future. C. N. Wire, Philadelphia, Pa., is interested.

WASHINGTON.—Reports state that R. Shields, a mill man of Enterprise, Wash., has completed 6 miles of standard-gage railway, connecting his lumber mill on Bertrand Creek with the Great Northern R. R. at Enterprise, and proposes to extend it to Lynden, a distance of three miles.

YELLOWSTONE PARK R. R.—Incorporated in New Jersey with a capital stock of $2,500,000, to build railways through Yellowstone Park, Wyo. Alex. Morrison, Hackensack; D. E. Everitt, Jersey City; F. A. Hall, Livingston, Mont, and C. E. Barrett, Indianapolis, Ind., are incorporators.

STREET AND ELECTRIC RAILWAYS.

CONCORD, MASS.—The route of the Concord & Clinton St. Ry. has been surveyed between this town and Concord Junction.——R. W. Babson, Ch. Engr., Boston & Concord St. Ry. Co., Wellesly Hills, informs us that the contract for building the company's electric line, 17½ miles in length, will not be let until spring. Surveys are made and rights of way partly secured. Mayor Davis, of Woburn, has signed the franchise granting a location to the company in that city. According to the conditions the construction must be started in the spring and completed by Dec. 1, 1900.

HOLYOKE, MASS.—The directors of the Holyoke St. Ry. Co. have decided to issue $200,000 in new stock to pay for the improvements made to the company's line. The matter of building to Granby has been referred to a committee composed of three directors. C. A. Shaw, Ch. Engr.

BUFFALO, N. Y.—Local papers state that the International Traction Co., has been incorporated in Dover, Del., with $1,100,000 capital stock, to build an electric railway system connecting Buffalo with points along Lake Erie on the Canadian shore as far as Crystal Beach.

SYRACUSE, N. Y.—The board of managers of the Chamber of Commerce have approved the petitions of the citizens of De Ruyter, Delphi and Cazenovia asking for an extension of the Syracuse & Suburban R. R. through those towns.

JERSEY CITY, N. J.—The Jersey City, Hoboken & Paterson St. Ry. Co. has started preliminaries for the construction of the proposed new electric line from 14th St. ferry, Hoboken, over the Bergen Turnpike to Hackensack. The actual work on the road is to be started by spring. W. H. Hall, Ch. Engr., Hoboken.

FRACKVILLE, PA.—The council has granted the Shenandoah & Pottsville St. Ry. Co. a right of way through this borough. The rights of way are rapidly being secured and surveys are being made. The specifications are to be ready by spring, when bids will be asked for the construction. Powell Evans, Pres., Shenandoah.

PITTSBURG, PA.—The construction of the Creighton, New Kensington & Springdale St. Ry. will not be started for several weeks, as the county commissioners withhold their consent for the construction of the road on the highways. The Tennis Construction Co., contractors, Philadelphia, have the contract.

NEWPORT NEWS, VA.—W. J. Nelms, Pres., Hampton Roads Ry. & Electric Co., Newport News, reports that the rights of way for the company's line are now being secured and preliminary surveys made. The road will be about 12 miles long, extending from this city to Old Point Comfort.

CHARLESTON, W. VA.—The Wheeling Traction Co. has been incorporated with $10,000 capital stock, to construct a street railway from Wheeling to Bridgeport, Bellaire and other towns. Henry Ford, A. R. Manning and L. M. Hilreth, Cleveland, O., are incorporators.

ATLANTA, GA.—Local papers state that this city is shortly to be connected with Lithia Springs by an electric road. S. A. Collins, civil engineer, has been making surveys for the new line.

CLARKSVILLE, GA.—J. H. Hicks, Clarksville, writes us that the capital for building the electric railway from this city to Nacooche, 15 miles, has not yet been secured. Propositions have been offered but have been rejected, as better are expected after the election.

JACKSON, MISS.—It is stated in local papers that the Jackson Electric Light Ry. & Power Co. will extend its line to Cedar Lawn Cemetery, about one mile. F. G. Jones, Pres.

COLUMBUS, O.—It is stated that the Cincinnati, Georgetown & Portsmouth Ry. will be extended through West Union to Portsmouth, from Georgetown. The company has been authorized to issue $125,000 additional stock.——The Toledo Interurban Ry. has been incorporated with $10,000 capital stock to build an electric road from Toledo through Lucas, Fulton and Williams counties. Grant Williams, S. D. Carr and Geo. D. Palmer, Jr.

COSHOCTON, O.—C. B. Hunt, attorney, informs us that the county commissioners have granted to Harry S. Sands and Lawrence G. Hallock, of Wheeling, W. Va., and Emmett D. McKee, Steubenville, the right to use the highway from this town to Newcomerstown, via West Lafayette, for an electric road. Applications for franchises from Coshocton and Newcomerstown are now pending.

GALION, O.—The Ohio Central Traction Co. has decided to build an extension from this place to Crestline, and another from Bucyrus to Upper Sandusky. The estimated cost of the Crestline extension is $80,000, and of the Upper Sandusky extension $125,000. I. A. Kelsey, Pres.

MARIETTA, O.—The Marietta, Williamstown & Parkersburg Electric Light & R. R. Co. has been incorporated with $6,000 capital stock, to build an electric street railway between this city and Parkersburg, W. Va. Wm. R. Ryan and Wm. Weil, Cleveland, and Jas. A. Griffin, Williamstown, are interested.

TOLEDO, O.—Frank T. Oakley, Ch. Engr., 1033 Spitzer Bldg., Toledo, informs us that the grading of ¼ of the first 10 miles of the Toledo & Western R. R. Co.'s 50-mile road has been completed. The preliminary surveys have been made for the entire distance, and part of the rights of way is secured. The company is doing its own grading. The route by names of towns, will be from Toledo, through Sylvania, Matamora to Morencia, Mich., with a branch to Adrian, Mich. Luther Allen, Pres., Cleveland.

INDIANAPOLIS, IND.—The Indiana & Ohio Traction Co. has been incorporated with $750,000 capital stock, to build an electric line to run from Marion, through Huntington and Fort Wayne to Hicksville, O. J. H. Simonson, Ft. Wayne; Perry R. Smith, Ridgeway, Pa., and J. M. Ainsworth, Hicksville, O., are interested.——John H. Mahoney, Pres., Indianapolis, Morristown & Rushville Traction Co., informs us that the right of way for the company's 35-mile electric line has been secured, and surveys are now being made. T. Sanford Horton, Ch. Engr., Indianapolis.

WABASH, IND.—Engineers are reported to have started the survey for the Wabash River Traction Co., which has filed its bond in the sum of $10,000 to begin construction. Contracts will be awarded at once, and the line will be finished by April 1. The construction is to be started as soon as the frost is out of the ground. It is stated that 30,000 ties will be purchased this month.

DETROIT, MICH.—The final location of the line for the Pontiac & Flint Electric Ry. is being made by the Standard Engineering Co., of Detroit. The construction of the 10 miles between Pontiac and Clarkston will be started within the next 30 days.

MENOMINEE, MICH.—Reports state that the Escanaba & Lake Superior Ry. will build a dam on the Escanaba River, north of Wells, Mich., and utilize the water power in generating the electricity for its railway line. A survey will be made at once. The cost of the dam will be about $35,000, and the power house to be built will cost $120,000. It is expected to extend the road 20 miles northwest to penetrate a new hardwood belt.

CHICAGO, ILL.—Reports state that the Chicago Union Traction Co. will expend $100,000 in extending the West North Ave. line from 40th to 48th Ave. J. A. Chapman, Ch. Engr., 444 North Clark St.

MADISON, WIS.—The Milwaukee, Berlin & Northern Ry. Co. has been incorporated with $100,000 capital stock, to build a road from Berlin to Stevens Point. Llewellyn Graff, Halgar Rommerdall, of Chicago, and W. W. Cooper, Kenosha, are interested.

HELENA, MONT.—The construction of the new electric line from the power plant of the Helena Water & Electric Power Co., at Canyon Ferry, to Butte, has been started. The work will be under the supervision of Wm. Davis.

JEFFERSON CITY, MO.—The Hannibal Ry. & Electric Co., of Hannibal, has been incorporated with a capital stock of $100,000, to construct a street railway in Hannibal. E. D. Brewington, E. P. Bowman and H. J. Blathy are interested.

MARSHALL, TEX.—A. W. Wheeler, a northern capitalist, has asked for a 50-year franchise for an electric street railway in this town, which will probably be granted.

GUTHRIE, OKLA.—The Sulphur Springs Electric Ry. Co. has been incorporated with a capital stock of $300,000, to build an electric line, 24 miles in length, connecting towns in the Cherokee Nation, Ind. Ter. The estimated cost of the construction is $25,000. The charter is for a period of 99 years. It is proposed by the company to build an electric plant and furnish light and power to Sulphur Springs, Davis, Winnewood, Roff and other towns. J. J. McAlester, South McAlester, Ind. Ter.; W. K. Snyder, Oklahoma City, Okla.; and Jas. A. Hallar, Keokuk Falls, Okla., are interested.

ST. THOMAS, ONT.—It is stated that the St. Thomas St. Ry. Co. has increased its capital stock from $100,000 to $250,000 for the purpose of extending its system to Port Stanley. J. H. Still, Pres.

ELECTRIC LIGHT AND POWER.

PORTSMOUTH, N. H.—Bids are asked until Oct. 30 for furnishing an electric generating set and supplies at the navy yard. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

ELLIS ISLAND, N. Y. H.—Bids are asked until Oct. 30 for furnishing and installing a switchboard at the new Immigrant Station, Ellis Island. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

ALLEGHENY, PA.—It is stated that the question of issuing $100,000 in bonds for extending and improving the city plant will be voted on at the November election. Jas. G. Wyman, Mayor; F. J. Torrence, Pres. Council.

BEAVER FALLS, PA.—It is stated that the people of College Hill have decided to appropriate $13,000 for erecting a plant.

PHILADELPHIA, PA.—Bids are asked until Oct 30 for furnishing a quantity of electrical supplies at the League Island navy yard. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

BALTIMORE, MD.—We are informed that the contract has been let for erecting the proposed plant of Hochschild, Kohn & Co. Chas. E. Cassell, Arch., 404 Law Bldg.

BALTIMORE, MD.—Bids are asked until Oct. 31 for erecting an electric light line from the Mount Royal pumping station to the Western pumping station, with branches. Alfred W. Quick, Water Engr.; Thos. G. Hayes, Pres. Bd. of Awards.

AURARIA, GA.—F. L. Murray, T. R. Craven and G. L. Fisher are said to be interested in a company with a capital of $1,000,000, which proposes to develop the water power here to furnish electricity for mining purposes.

HAWKINSVILLE, GA.—Press reports state that this city is investigating the question of erecting a municipal plant. T. H. Grace, Mayor.

ORLANDO, FLA.—The city is said to have asked for bids for a franchise for a plant. Address the Mayor.

TALLAHASSE, FLA.—We are informed that work will soon be started on the proposed new municipal plant. Contracts were let about a year ago to Moore & McCready and the General Electric Co., both of Atlanta, Ga., but the work was stopped by an injunction suit, which has been decided in favor of the city.

TAMPA, FLA.—The council is said to have taken preliminary steps toward holding a special election to vote on the question of issuing bonds for erecting a plant.

HUNTSVILLE, ALA.—The city is said to have renewed the contract with the electric light company for lighting the city.

TULLAHOMA, TENN.—Geo. W. Davidson, Mayor, writes us that the city has granted a franchise to a private company to operate a plant for three years.

GEORGETOWN, KY.—Press reports state that the question of issuing $50,000 in bonds for constructing a plant and water-works will soon be voted on. J. C. Lemon, Clk.; A. H. Sinclair, Mayor.

PEMBROKE, KY.—Contracts will probably soon be let for erecting the proposed plant here. W. S. Bumpus is interested, according to reports.

CINCINNATI, O.—The light committee is said to be considering the question of municipal ownership for the electric and gas plants.

CELINA, O.—Bids are asked, according to reports, until Oct. 26 for erecting a municipal plant. Ralph G. Le Blond, Village Clk.

MARIETTA, O.—It is stated that the Webster Oil Co. will soon start work on a new power house, the contract for which has been let to the Marietta Mfg. Co.

MOLINE, ILL.—The council is said to be considering the question of erecting an electric plant at the waterworks.

NEOGA, ILL.—The contract for erecting the municipal plant and water-works is said to have been let to R. Lester Thayer, of Peoria, at $16,800.

PEKIN, ILL.—The question of erecting a municipal plant is being discussed, according to reports.

RIPON, WIS.—Bids are asked, according to reports, until Jan. 3 for the privileges and franchise for supplying electric light to this city for 5, 10 or 15 years. Specifications may be obtained from the city clerk after Nov. 1. F. W. Allen, Cy. Clk.

COUNCIL BLUFFS, IA.—At a special election recently held, the people voted to grant a 25-year franchise to the Bluff City Electric Light & Gas Co.

GRUNDY CENTER, IA.—The plant of the Grundy Center Electric Light Co. was recently damaged by fire to the extent of about $2,000. E. M. Sargent, Mgr.

NEW LONDON, IA.—An electric plant and water-works will soon be erected here, according to reports.

LEWISTON, MONT.—Press reports state that the council has refused to grant a franchise for a plant.

LOCKHART, TEX.—C. E. Jones, Supt. water-works, will, it is said, install a plant with a capacity of about 2,500 lights at the water-works, and also an ice plant.

MONTESANO, WASH.—The council has granted a franchise to Chester H. Kiehl and others, of Seattle, to erect a plant, which is to be operated by power from Saliva Falls, according to reports.

PORT ANGELES, WASH.—It is stated that John S. McCroaty, of Philadelphia, Pa., will purchase the waterworks and electric plant here and improve and extend them.

PUGET SOUND NAVAL STATION, WASH.—Bids are asked until Nov. 13 for furnishing a generating set and switchboard here. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

PORTLAND, ORE.—Bids are asked until Nov. 20 for lighting the streets of this city from Feb. 28, 1901, to Dec. 31, 1902. Thomas C. Devlin, Clk.

VANCOUVER, B. C.—The Stave Lake water power is said to have been purchased by the Mackintosh Syndicate, of which Hon. C. H. Mackintosh is chairman. A dam will be built and about 15,000 HP. developed and transmitted to this city.

PARRY SOUND, ONT.—The question of issuing $20,000 in bonds for purchasing the electric plant will probably be submitted to the people at a special election.

BRIDGES.

BOSTON, MASS.—Bids are wanted by the county commissioners until Oct. 29 for constructing a pile bridge across North River, in the towns of Scituate and Marshfield. Edward S. Shaw, Consulting Engr., 12 Pearl St.——The Berkeley St. bridge, which spans the vacated Boston & Providence R. R. tracks, will be removed and the street made by filling.

EAST HARTFORD, CONN.—A committee has been appointed by the selectmen to inquire into the cost of a new bridge to replace the wooden structure over the Hockanum River, on Forbes St., Burnside. The report is to be made before Dec. 15.

NEW YORK, N. Y.—The following bids were received by the Bureau of Yards and Docks, Navy Dept., Oct. 13, for constructing a terminal railway bridge and float at the navy yard; (1) bridge and float complete; (2) float complete; (3) bridge complete:

	(1)	(2)	(3)
Wm. H. Jenks, New York	$14,995	$6,600	$8,395
Louis Wechsler, New York	15,940	7,250	7,750
Penn Bridge Co., Beaver Falls, Pa.	10,903	3,600	7,313
Cort Construction Co., New York	11,347	4,236	7,676
Snare & Triest, New York	10,340	4,187	6,153
King Bridge Co., Cleveland, O.	.....	.....	7,500

NEW YORK, N. Y.—A public hearing in regard to the application of the New York Connecting Ry. Co. to the Secretary of War for permission to bridge the East River from a point near Astoria to Ward's Island was held at the Armory Bldg., Oct. 23. The plans were drawn by Alfred B. Boller, who explained them in detail. They provide for a cantilever bridge 800 ft. long, 30 ft. wide and 135 ft. above mean low water. The proposition was not opposed.

PENN YAN, N. Y.—The contract for improving the Liberty St. bridge, over the outlet of Crooked Lake, has been awarded by J. N. Cartridge, Supt. Pub. Wks., to John R. Briggs, Herkimer, at $3,764. The work is to be completed by Nov. 15.

DOYLESTOWN, PA.—The following bids have been received by the county commissioners for building the stone arch bridge over Tinicum Creek, in Nockamixon: Franklin Adams, $1,474; Isaac R. Lear, $1,472 (accepted); Joseph Schwar, $2,100.

HARRISBURG, PA.—The lowest bid received by the board of public buildings and grounds Oct. 17 for erecting a new bridge to cross the Clarion River at Clarion was submitted by the Owego Bridge Co., Owego, N. Y., at $29,440. The award will be made in a few days. The new bridge will be 449 ft. long, with a roadway of 20 ft.

FAIRVIEW, PA.—It is stated that a new bridge is to be built over the Antietam, between this place and Welty's. The county commissioners are now preparing plans and specifications for the structure.

PHILADELPHIA, PA.—Ordinances are now before the council for the appropriation of $40,000 for the bridge over the North Penn R. R. at Allegheny Ave.; $19,000 for the bridge over the same road at Rising Sun Ave., and $74,000 to carry Lehigh Ave. under the Pennsylvania R. R. tracks.

READING, PA.—The following bids have been received by the county commissioners for an iron bridge over the Tulpekocken, near Krick's Mills: William F. Remppis & Co., Reading, Pa., $1,060; Canton Bridge Co., $1,125; Toledo Bridge Co., $1,197; Penn Bridge Co., Beaver Falls, $1,095; Pheonix Bridge Co., Philadelphia, $1,095; Groton Bridge Co., Groton, N. Y., $1,045; King Bridge Co., Cleveland, O., $1,055.

WASHINGTON, D. C.—The contract for constructing the Melan arch bridges over Rock Creek and Piney Branch have been let to the Geisel Construction Co., St. Louis, Mo., at $16,850 and $2,600, respectively. The bids submitted for these bridges were published in Engineering News of Oct. 18.

WYTHEVILLE, VA.—F. M. Heuser, Wytheville, informs us that bids will be received until Nov. 12 for building a wooden wagon bridge, stone foundation, over Cripple Creek, near Beverly Farms, to have three 50 ft. spans.

ATLANTA, GA.—The council has authorized City Engineer Clayton to advertise for bids for constructing the proposed Whitehall St. viaduct.

TAMPA, FLA.—The council has accepted the bids of the Virginia Bridge Co., of Norfolk, Va., for the three steel span bridges to be built across Spanishtown Creek, replacing the structures now in use.

DECATUR, ALA.—The Southern Ry. will construct a bridge over the Tennessee River at this place. The plans have been prepared. W. H. Wells, Civil Engr., Washington, D. C.

NATCHITOCHES, LA.—The contract for building the Natchitoches Ry. & Construction Co.'s bridge at Grand Ecore has been let to the Alabama Bridge & Iron Co., Decatur, Ala., at $92,000. The bridge will consist of one 350-ft. draw span, one 175-ft. through span, and about 250 lin. ft. of pile trestle. Work will be started Oct. 30 and will be finished within eight months.

BARBERTON, O.—W. A. Witner, Clk., informs us that the proposed bridge over the Erie R. R. crossing will be built jointly by the city and the Erie R. R. Co. The structure will be of steel, about 60 ft. wide; the length is not determined. Plans are now being prepared by the Erie R. R. engineers, and will shortly be finished. Estimated cost, $35,000.

DAYTON, O.—Bids are asked until Oct. 27 for constructing a bridge across Bear Creek at the Winchester road, Miami township. A. G. Feight, County Audr.

CINCINNATI, O.—Local papers state that the superstructure of the new bridge spanning Mill Creek at Spring Grove Ave. will be contracted for as soon as the award is made for the masonry work. The bids for the masonry work have been received, the lowest being $37,050. The superstructure is estimated to cost $30,000. Robt. Allison, Pres. Bd. Pub. Service.

CLEVELAND, O.—Bids are asked until Nov. 9 for rebuilding the Middle Seneca St. bridge over the Cuyahoga River, according to reports. John Vandevelde, Deputy Dir. Pub. Wks.

BROOKVILLE, IND.—Bids are asked until Oct. 30 for new steel joists, new floor and repairs to the river bridge near Cedar Grove. G. Ray King, County Audr.

MADISON, IND.—Bids are asked until Oct. 30 for constructing the masonry substructure for a new bridge to span Indian Kentuck Creek at the mouth of Toddy's branch, and until Nov. 8 for the superstructure, according to reports. Gam. S. Taylor, County Audr.

PAOLI, IND.—Bids are asked until Oct. 30 for constructing a new bridge over the bayou, on the West Baden and Huron road, according to reports. Geo. W. Tegarden, County Audr.

RAPID CITY, MICH.—The board of supervisors of Antrim and Kalkaska counties have decided on a location for a draw bridge across the Torch River.

MOLINE, ILL.—Local papers state that the Davenport, Rock Island & Northwestern R. R. will build a steel bridge across the Mississippi River, to be about 3,700 ft. in length.

SPRINGFIELD, ILL.—Bids are asked until Oct. 27, according to reports, for building 800 lin. ft. of steel trestle north of Chinkopin Hill. Frank H. Hamilton, Cy. Engr.

CHIPPEWA FALLS, WIS.—O. J. Nyhus, Cy. Engr., writes us that the council is now considering the eight bids received for a steel bridge over the Chippewa River at this place.

BURLINGTON, IA.—It is stated that a new wagon and railway bridge will be built across the Mississippi River. A company has been formed to build the bridge, with the following officers: Wm. H. Fitch, Pres., Groton, N. Y., and S. Mellinger, Vice-Pres., Burlington.

DAVENPORT, IA.—The question of building a new bridge over Steuben's Creek on Garfield St., is being considered.

FORT SCOTT, KAN.—Bids are asked until Nov. 5 for the construction of a steel low truss bridge, with one span of 56 ft. Lydia Barton, County Clk.

SENECA, KAN.—Bids are asked until Nov. 8 for constructing two 36-ft. iron bridges and one 70-ft. iron bridge, with an 80-ft. approach, according to reports. J. T. Sanders, Chn. County Comrs.

NAPOLEON, N. DAK.—Bids are asked until Nov. 12 for constructing a bridge over Beaver Creek, according to reports. J. A. Weed, County Audr.

MONTROSE, COLO.—Bids are asked until Nov. 14 for construction of a bridge across the Uncompahgre, near the head gate of the Montrose and Delta canal, according to reports. T. W. Monell, County Clk.

SAN JOSE, CAL.—Bids are reported wanted until Nov. 7 for erecting a 120-ft. span combination bridge over Coyote Creek, to cost about $4,000. P. P. Austin, Chn.

UKIAH, CAL.—The following bids were received by the supervisors for constructing a bridge across the Garcia River: Orr & Evans, $2,685; Hyde Construction Co., $2,297; Healy, Tibbets & Co., $2,180; San Francisco Bridge Co., $1,760. Owing to an error in the advertisement for bids, all bids were rejected and new bids will be called for.

OTTAWA, ONT.—It is stated that the council will vote on the proposition of appropriating $75,000 for a bridge across the St. Lawrence River from Hull to Bank St.

BUILDINGS.

NEWPORT, R. I.—We are informed that the following lowest bids were received Oct. 17 by Maj. H. P. Young, Q. M., for constructing and equipping a coal shed at Fort Adams: Joseph C. Terry, Fall River, Mass., construction, $6,925; William Beattie, Fall River, equipment, $1,350.

BROOKLYN, N. Y.—Plans have been filed by C. H. Smith, 353 Pacific St., for ten 3-story brick dwellings, 18 x 43 ft., at St. Johns and St. Charles Places, to cost about $100,000. F. S. Lowe, Arch., 184 Remsen St.; by C. Koehler, 176 Irving Ave., for four 3-story brick stores, 25 x 27 ft., at Irving Ave. and Hart St., to cost about $49,000. L. Berger & Co., Archs., 300 St. Nicholas Ave., New York. J. P. Dangler, Arch., 143 North Fourth St.; by John Eich, 693 Park Ave., for three 3-story brick flats, 25 x 59 ft., at Grove St., near Knickerbocker Ave., to cost about $27,000. W. B. Wills, Arch., 17 Troutman St.; by Thos. H. Radcliffe, 824 Fulton St., for three 3-story brick dwellings, 24 x 58 ft. and 22 x 55 ft., at Ave. C and East 15th St., to cost about $32,000. A. D. Islam, Arch., 1134 Flatbush Ave.; by Strauss & Charig, 473 Tompkins Ave., for four 3-story brick tenements, 25 x 65 ft., at St. Johns Place, near Rogers Ave., to cost about $40,000. W. Debus, Arch., 808 Broadway.——We are informed that Wm. E. Kay, 1358 56th St., will receive bids for erecting 30 2-story frame dwellings, 18 x 40 ft., at 47th St., near Sixth Ave., to cost about $66,000. George F. Rosen, Arch., 68 Ft. Green Place.

BROOKLYN, N. Y.—The following bids were received Oct. 18 by the Armory board, Mayor's Office, New York, for alterations and improvements designated No. 1, No. 2, and No. 3, to the Fourteenth Regiment Armory, on Eighth Ave., and 14th St.: No. 1, Chas. Hart, 617 Degraw St., $21,442; N. B. Smyth, New York, $34,973; No. 2, Chas. Hart, $2,266; No. 3, Chas. Hart, $4,384; N. B. Smyth, $5,483; D. O. Hepburn, 547 Broome St., New York, $7,734.

BUFFALO, N. Y.—The board of county supervisors have received the following bids for erecting the new county hospital building at the almshouse: C. A. Rupp, 47 East Utica St., $110,000; William Henrich's Sons, $128,490; Fliri & Reimann, $121,500; Moshler & Summers, $107,200; Joseph Metz, 292 Elm St., $122,000.——It is stated that the Lake Shore & Michigan Southern Ry. will erect a grain elevator here, to have a capacity of 250,000 bushels. E. A. Handy, Ch. Engr., St. Clair and Seneca Sts., Cleveland, O.

NEW YORK, N. Y.—The following bids were received Oct. 18 by the department of charities, foot of East 26th St., for completing the administration building on Blackwell's Island: Wm. Henderson, Eastern Boulevard, Westchester, $109,069; Louis Wechsler, $110,000; Wm. H. Post, $112,200; Jno. R. Sheehan, 334 East 60th St., $113,000; for plumbing and gasfitting the new administration building: M. J. O'Brien, 835 Sixth Ave., $14,430; Wm. R. Thompson, $18,498; for steam heating and electric light plant in the administration block: Frank Dobson, 218 West 42d st., $43,314; Williams & Gerstle, 44th St. and First Ave., $43,864; Blake & Williams, 362 West Broadway, $44,620; John Henken & Bro., East 13th St., $46,540; for altering windows and exterior portions of the penitentiary building: Wm. Henderson, $17,919; Jas. Fay, 205 East 51st St., $21,100; D. F. Mahony, $23,995; Louis Wechsler, $24,500; Wm. H. Post, $24,990; for a steam plant in the workhouse and a pumping outfit at the stone quarry: Wm. H. Gardiner, $3,194; A. Winternitz, $4,293; Blake & Williams, $5,584; Frank Dobson, $5,000; Williams & Gerstle, $5,600.

NEW YORK, N. Y.—Bids are asked by the board of health, 5th St. and Sixth Ave., until Oct. 31 for erecting a laboratory at the Willard Parke Hospital, foot of East 16th St.——The contract for erecting a 2 and 4-story brick store and office building at Third and Westchester Aves., for Richard Seigman, 45 West 42d St., to cost about $44,500, has been let to Geo. Hollerith & Son, 422 East 118th St. Arthur Arctander, Arch., 362 Alexander Ave.——We are informed that the contract for erecting a new 3-story brick church building, 75 x 100 ft., on 102d St., near Park Ave., for the Peoples Tabernacle No. 1, 232 East 104th St., to cost about $55,000, has been let to Hugh Thornton & Sons.——It is stated that Oscar Hammerstein will erect a new theatre on West 30th and 31st St., near Eighth Ave.

NEW YORK, N. Y.—Plans have been filed by H. U. Singhi, Jerome Ave. and 184th St., for five 3-story brick dwellings, 18 x 42 x 60 ft., at Davidson Ave. and 184th St., to cost about $39,000. Henry Anderson, Arch., 1181 Broadway; by Gustav Brauhahn, 1741 Topping Ave., for a 7-story brick apartment house, 75 x 88 ft., at 94th St., near West End Ave., to cost about $125,000. Schneider & Herter, Archs., Bible House; by the City of New York, for a 4-story brick and granite armory building, 175 x 100 ft., at 50 to 62 West 66th St., to cost about $200,000. Horgan & Slattery, Archs., 1 Madison Ave.; by Elias Kempner, 35 Nassau St., for two 7-story brick flats, 56 x 100 ft. and 49 x 75 ft., at West End Ave. and 100th St., to cost about $105,000. Geo. F. Pelham, Arch., 503 Fifth Ave.

NEW YORK, N. Y.—Bids are asked by the committee on buildings of the board of education, 59th St. and Park Ave., until Oct. 29, for erecting an addition to public school No. 61, on Third Ave., near 169th St., and for installing a heating and ventilating apparatus and electric plant in public school No. 105, Brooklyn.——Bids are asked by the department of public charities, foot of East 26th St., until Nov. 5, for altering the laundry building at Bellevue hospital, and for engineer's supplies and miscellaneous repairs to buildings and apparatus.——Bids are asked until Nov. 21 for the excavation, foundations, basement walls and structural steel for the new U. S. custom house building here. Cass Gilbert, Arch., 111 Fifth Ave.; Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

JERSEY CITY, N. J.—Bids are asked until Oct. 29 for erecting a storehouse at 164 Bright St. Chas. Esterbrook, Clk. Fire Bd.

ORANGE, N. J.—It is stated that McKim, Mead & White, 156 Fifth Ave., New York, will prepare plans for the new Y. M. C. A. building here, to cost about $40,000.——The board of education is said to have appointed a special committee to look into the question of erecting a new high school building.

ARDMORE, PA.—We are informed that D. J. Duncan, of Ardmore, and several other architects are working on plans for a new schoolhouse to replace the one recently burned.

PHILADELPHIA, PA.—Plans and specifications are now on file at room No. 209 Hale Bldg., and contracts are being received for a new theatre on Sansom St., near Broad.——Lawrence V. Boyd, 1215 Harrison Bldg., is preparing plans for a new apartment house in Germantown, to cost about $250,000.——Plans can be seen at the office of Wm. R. Dougherty, 1604 Sansom St., for a new domitory for St. Vincent's Home at Tacony.——We are informed that bids are now in the hands of the owner for a 5-story brick factory building, for Fleck Bros., at 46 North Fourth St., to cost about $25,000. Hazlehurst & Huckle, Archs., 913 Girard Bldg.

SEWICKLEY, PA.—It is stated that a new Y. M. C. A. building to cost about $50,000 will be erected here.

WILKESBARRE, PA.—Reports state that the county commissioners have decided to erect a new courthouse on the site of the present one.

ANNAPOLIS, MD.—The following bids were received Oct. 16 by Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C., for erecting a new post office building: Richardson & Burgess, 613 14th St., N. W., Washington, $78,254, 14 months; Noble H. Thomas, 1811 35th St., N.W., Washington, $85,600, 8 months; Hobbs & Parkinson, Washington, $78,500, 14 months; Chas. McCaul, 10 N. 11th St., Philadelphia, Pa., $72,997.50, 10 months; P. J. Carlin & Co., 26 Court St., Brooklyn, N. Y., $74,263, 14 months; Henry S. Rippel, Baltimore, Md., $81,500, 14 months.

ELKTON, MD.—The board of health will, it is stated, soon receive bids for a new hospital building to cost about $50,000.

MARTINSBURG, W. VA.—Reports state that the members of the Christian Church have decided to erect a new building, 42 x 47 ft., on Winchester Ave. Geo. W. Kramer, 1 Madison Ave., New York, N. Y., has prepared plans.

CHARLESTON, S. C.—Bradford H. Gilbert, 50 Broadway, New York, N. Y., is said to have completed plans for the buildings for the Carolina Inter-State and West Indian Exposition buildings.

MACON, GA.—Press reports state that the Knights of Damon will erect a six-story lodge and office building here.

BIRMINGHAM, ALA.—The city hall commission has adopted the plans prepared by D. A. Helmich, 118½ 19th St., for the new city hall building. The plans call for a 4-story brik building, to cost about $135,000.——The contract for erecting the new Hotel Hillman at Fourth Ave. and 19th St. has been let to M. T. Lewman & Co., 816 Columbia Bldg., Louisville, Ky., $132,000, exclusive of heating, lighting, ventilating, plumbing and machinery.

EUFAULA, ALA.—Bids are asked until Oct. 25 for erecting an addition to the Sanford St. school house. J. T. Hatfield, Chn. Pub. Property Com.

JACKSON, MISS.—Bids are asked by the state capitol commission until Dec. 8 for erecting the new capitol building, to cost about $1,000,000. Theo. C. Link, Arch., 311 North Ninth St., St. Louis, Mo.; Gov. A. H. Longino, Chn. Com.

CHATTANOOGA, TENN.—It is stated that plans have been prepared and contracts will be let about Nov. 1 for erecting a new medical building for Grant University on McCallie Ave. J. H. Race, Pres.

ASHTABULA, O.—We are informed that the question of erecting a new high school building to cost about $25,000 will be voted on at the November elections. John L. Wilson, Arch.

CANTON, O.—The contract for erecting the new 5-story brick and stone Clewell Bldg., at South Market and Ninth Sts., to cost about $75,000, has been let to Daniel L. Holwick, 900 South Cleveland Ave.

CINCINNATI, O.—It is stated that the trustees of the German Deaconess Hospital will shortly let contracts for a new hospital building at Clifton and Straight Sts., to cost about $65,000.

CINCINNATI, O.—Bids are asked until Nov. 19 by the clerk of the board of education for erecting a new school house at Edwards and Observatory Roads.

SULLIVAN, O.—Press reports state that the building occupied by Burton Bros., the People's theatre and several other buildings were recently destroyed by fire; loss, about $100,000.

INDIANAPOLIS, IND.—It is stated that work will be commenced next spring on the new cathedral of S. S. Peter and Paul, to cost about $150,000. Rev. Joseph Chartrand, Asst. Priest.

MICHIGAN CITY, IND.—Bids are asked until Nov. 10 for a steam heating plant for St. Mary's Catholic Church. C. E. Combs, Secy. Church Bd.

CHICAGO, ILL.—Myron H. Wilson, of Evanston, a trustee of the Northwestern University Settlement, is said to have given that institution $50,000 to erect a new building, to replace the present one on West Chicago Ave.——George O. Garnsey, 185 Dearborn St., has completed plans for a 4-story brick apartment house, 50 x 108 ft., at Greenwood Ave., near 63d St., for C. M. Barclay, to cost about $40,000.——Goodhart Bros. will erect a new laundry building, 100 x 186 ft., on Cottage Grove Ave., near 23d St., to cost about $50,000, according to reports. J. D. Atchinson, Arch., 90 Washington St.——C. W. Northnagle, 185 Dearborn St., has prepared plans for a 3-story brick apartment house 100 x 106 ft., at Kedzie and Park Aves., for John Jeffrey, to cost about $40,000.——Plans are said to have been prepared by John H. Wagner, 107 Dearborn St., for the steel work for an 8-story steel and stone building 100 x 40 ft., at La Salle Ave. and Ontario St., for the Chicago Flexible Shaft Co., to cost about $70,000.——S. A. Treat, Fisher Bldg., is said to have completed plans for a one-story brick building, 250 x 270 ft., for the Western Electric Co., to cost about $50,000.——It is stated that J. F. & J. P. Doerr, 1203 Chamber of Commerce, have prepared plans for a 3-story apartment house, 100 x 75 ft., at 4745-53 St. Lawrence Ave., for William P. Doerr, to cost about $50,000.

MILWAUKEE, WIS.—It is stated that the Milwaukee Electric Railway & Light Co. will erect a new building to be used for offices and a car barn to cost about $500,000. J. I. Beggs, Gen. Mgr., 451 Broadway.

MASON CITY, IA.—Plans have been adopted for the new Military University building to be built here. The building will be of Iona granite.

NEW VIRGINIA, IA.—Bids are asked until Nov. 1 for erecting a new school house in district No. 6, Squaw Township. Fred. Johnston, Secy.

ST. PAUL, MINN.—Bids are asked until Nov. 20 for the interior finish, including plumbing, gasfitting, etc., of the U. S. post office building here. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.——The packing house of A. V. Hinman & Co., and several other buildings were recently destroyed by fire; loss, about $450,000.

HEBRON, NEB.—The question of issuing $55,000 in bonds for erecting a new courthouse will be voted on at the November elections, according to reports.

FORT MEADE, S. DAK.—Bids are asked until Nov. 14 for erecting one barrack, one guard house, and one commanding officers' quarters here. Geo. E. Pond, C. Q. M., St. Paul, Minn.

HELENA, MONT.—Bids are asked until Nov. 20 for erecting the new U. S. building here. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

ST. LOUIS, MO.—Local papers state that plans are being completed for a new city hospital to cost about $312,000, including a kitchen and power house, which will cost $72,000.

AUSTIN, TEX.—R. M. Milligan, Chemical Bldg., St. Louis, Mo., is, according to reports preparing plans for the new Catholic Hospital building, to be erected at 26th and Nueces Sts., to cost about $50,000.

DALLAS, TEX.—The contract for erecting the new Carnegie public library building, at Harwood and Commerce Sts., to cost about $50,000 is said to have been let to Sonnefield & Emmins, 244 Cochran St.

EL PASO, TEX.—A special election was to have been held Oct. 23 to vote on the question of issuing $75,000 in bonds, for erecting new schools, according to reports.

WACO, TEX.—Bids are asked until Dec. 3 for erecting a new fireproof courthouse here. J. N. Gallagher, County Judge.

DENVER, COLO.—We are informed that the general contract for erecting a new 3-story brick schoolhouse, 150 x 75 ft., to cost about $75,000, has been let to W. E. Towns, R. S. Roeschlaub, Arch., King Block.

BREMERTON, WASH.—Bids are asked until Nov. 10 for constructing a brick and steel building, 32 x 50 ft., at the naval station here. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.

PORTLAND, ORE.—Bids are asked until Nov. 6 for erecting the new U. S. custom house building here. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.——Jas. K. Taylor, Supv. Arch., Treasury Dept., received the following bids Oct. 17 for the interior finish, etc., of the U. S. building here: Wakefield & Bridges, Portland, $129,976, 14 months; Stewart & Winslow, Portland, $170,000, 14 months; Chas. A. Sayre, Tacoma, Wash., $[illegible],537, 14 months; John Pierce, New York, N. Y., $12[illegible], 12 months; Henry Ferge, Milwaukee, Wis., $13[illegible], 14 months; Congress Construction Co., Chicago, Ill., $117,900, 14 months; Arthur K. Bentley, Portland, $11[illegible],25, 14 months; W. R. Nichols, Tacoma, Wash., $12[illegible], 14 months; Butler-Ryan Co., St. Paul, Minn., $[illegible], 14 months; Forster & Smith, Minneapolis, Minn., $12[illegible], 14 months; and the following for installing a heating and ventilating apparatus in the same building: [illegible] Bade Co., Portland, $27,129, 60 days; Wolff & Zwicker Iron Co., Portland, $20,937, 75 days; Cawston & Co., Portland, $26,222, 120 days; Chas. B. Kruse, Milwaukee, Wis., $19,990, 150 days; J. F. Shea, Portland, $23,995, 60 days; Muirhead & Murhard, Portland, $31,000, 30 days; Wakefield & Bridges, Portland, $24,494, 60 days; Harris & Alger, Camden, N. J., $23,947, 15 days.

FRESNO, CAL.—The county hospital is said to have been recently destroyed by fire; loss, about $80,000.

FRESNO, CAL.—Bids are asked until Nov. 17 for constructing a 2-story brick and steel addition to the jail building. C. W. Cartwright, Clk. Bd. Supvrs.

SALT LAKE CITY, UTAH.—John Q. Packard is said to have offered the council $95,000 to erect a new public library building.

ST. JOHN, N. B.—It is stated that the Y. M. C. A. will erect a new building here to cost about $30,000.

WATER-WORKS.

BERLIN, N. H.—The committee has reported against the purchase of the works of the Berlin Water Co. at this time. Address Councilmen Hoffses, Daley and Steady. L. F. Wilson, Mayor.

BOSTON, MASS.—Peter Morrison, Comr. Penal Institutions, 32 Tremont St., has recommended a salt water system of fire protection for Deer Island. T. N. Hart, Mayor.

CHICOPEE, MASS.—The water commissioners are considering the question of extending the water mains to Willimansett and Fairview, to cost $50,000. Address Aldermen Griffin and Rivers.

PITTSFIELD, MASS.—Bids are asked until Nov. 20 for constructing a dam at Ashley Lake for the works, as described in our advertising columns. E. A. Ellsworth, Consult. Engr.; J. L. Bacon, Chn. Com.; A. A. Fobes, Engr.; L. B. Cummings, Clk. Bd. Pub. Wks.

EAST HARTFORD, CONN.—The water committee will soon report on the matter of the purchase of the works.

WATERBURY, CONN.—The aldermen propose to arrange for the early improvement of the Wigwam reservoir at a cost of about $125,000.

AFTON, N. Y.—This place is said to have voted to buy additional springs for an increased water supply.

ALBANY, N. Y.—Bids are asked until Oct. 29 for laying water mains in certain streets and for dredging the Hudson River opposite the mouth of the Patroon Creek sewer. Isidore Wachsman, Clk. Bd. Contract and Supply.

BINGHAMTON, N. Y.—It is estimated that a filtration plant for this city will require 20 acres with a capacity of 6,000,000 gallons a day, and will cost about $100,000.

BUFFALO, N. Y.—The following bids were received Oct. 17, for altering the pumps, etc.: Farrar & Trefts, boilers, $17,331; Lake Erie Boiler Works, repair pumps, $40,617; Riter Bros. Co., boilers, $17,850; Lake Erie Engineering Co., boilers, $18,175; Howard & Roberts, $17,678.

FULTONVILLE, N. Y.—This place has voted to issue $50,000 in bonds for new works.

KEESEVILLE, N. Y.—The question of securing a new water supply of about 500,000 gallons a day, either from Gay Brook or Augur Lake, or from a point on the river 12 miles distant, is being considered.

NEW YORK, N. Y.—Bids are asked by Wm. Dalton, Comr. Dept. Water Supply, 21 Park Row, until Nov. 1 for furnishing and laying a 48-in. cast-iron water main for the double pipe line between the Millburn engine house and the Millburn efflux chamber, and for the single pipe line from that point to the gate chamber at Spring Creek, together with the building of and alterations in culverts, conduits and structures, and the furnishing and setting of the necessary check valves and stop-cocks, in Brooklyn, and for furnishing, delivering and laying water mains in Mosholu Parkway, Bronx Park, Southern Boulevard and Potter Place, 204th St. Security, $400,000 and $50,000, respectively. The 48-in. pipe line will cost about $1,000,000.——Bids are asked by Commissioner Dalton until Nov. 8 for furnishing and laying water mains in Berry St. and Nassau Ave., Brooklyn, engine oil, coal, etc.

NORWALK, CONN.—The question of an increased water supply is being considered. Address Councilman S. H. Holmes and Mayor Glover.

ONEIDA, N. Y.—The trustees have voted to adopt water meters, according to reports.

OSWEGO, N. Y.—The Ontario Water-Works Co. is petitioning for permission to lay water mains. Thos. McPeak, of the East Side, is interested.

SUFFERN, N. Y.—L. J. Richardson, of Owego, N. Y., has the contract for the new works. He will install a Rumsey pump, Nash engine and Eddy valves and hydrants. The water supply will be secured from Lake Antrium. Pop., 1,800. J. F. Witmer, Engr., Ellicott Block, Buffalo, N. Y.; A. S. Bush, Village Clk.

WATERVLIET, N. Y.—The Watervliet Hydraulic Co. has been incorporated with a capital of $300,000 by Henry A. Millar, of Utica, N. Y.; John C. Chamberlain, Francis W. Marsh and others, of Bridgeport, Conn., to take over and operate the works and property of the West Troy Water-Works Co.

YONKERS, N. Y.—Bids are asked until Nov. 8 for excavating and refilling trenches for about 6,000 ft. of 6 and 12-in. pipe, etc., and for the purchase of $25,000 of 3½% water bonds. A. W. Kingsbury, Clk. Water Bd.

BAYONNE, N. J.—Jas. J. Cogan has been awarded the contract at $3,550 for extending a water main.

ELIZABETH, N. J.—Tests of the 24 new wells for the increased water supply in Union, Millburn and Springfield townships will soon be made by the Elizabethtown Water Co. Should the tests prove successful, it is stated that the company will proceed with the construction of the pumping plant. Arthur J. Connolly, Newark, N. J., has the contract for sinking the wells.

ENGLISHTOWN, N. J.—This place has voted to build works, to cost about $5,000.

JERSEY CITY, N. J.—Bids are asked until Oct. 30 for furnishing about 100 fire hydrants. Ferdinand Heintze, Chn. Com.

PLAINFIELD, N. J.—Reports state that one of the reservoirs of the Plainfield Water Co. that supplies North Plainfield will be cleaned and a roof built. It is also said that if the company does not take steps to make these improvements at once a local water company will be organized to build works for the borough.

PORT ORAM, N. J.—Signatures are being secured to a petition to call an election to vote on the question of issuing $26,000 in bonds for works. M. A. Mulligan, Mayor.

RAHWAY, N. J.—The opening of the bids for furnishing two 100-HP. horizontal boilers, as advertised in Engineering News, has been laid over until Nov. 7. D. G. Ormiston, Clk. Water Comrs.

CARBONDALE, PA.—Efforts are being made to hold an election to vote on the question of municipal works to cost about $145,000. Address Mayor Kilpatrick.

COAL CENTER, PA.—The Coal Center Water Co. has been incorporated with a capital of $1,000 by John F. Miller, of Edgewood, Pa.; Geo. W. Milligan, of E. Pittsburg, and Saml. A. Sayer, of Wilkinsburg, Pa.

PITTSBURG, PA.—Reports state that about $80,000 will be spent at once for new water mains. Geo. W. Wilson, Dir. Pub. Wks.

SCRANTON, PA.—The Scranton Gas & Water Co. has purchased the Dunmore Gas & Water Co. for $160,000, according to reports.

BALTIMORE, MD.—Councilman Conglar has appropriated $200,000 for the purchase of the works in the 19th Ward, of the Baltimore County Water & Electric Co., successors to the Catonsville Water Co.

WASHINGTON, D. C.—The following bids were received by the Interior department Oct. 19 for a steel water tower at the government hospital for the insane, near Washington: North Penn Iron Co., Philadelphia, Pa., $4,569, time, Dec. 31; N. J. Foundry & Machine Co., 26 Cortlandt St., New York, $5,990, 120 days; Snare & Triest, 39 Cortlandt St., New York, $5,417; Chicago Bridge & Iron Co., Chicago, $5,350, April 10; C. A. Schneider's Sons, Washington, $5,300, Jan. 15.

FALLS CHURCH, VA.—Haney & Tyler, Civil Engrs., are reported as considering the question of building works and a sewerage system.

NEWPORT NEWS, VA.—The Powhatan Water Co., recently organized, has applied to the council for a franchis; capital stock, $300,000. The company is empowered to acquire not over 5,000 acres of land in Newport News and Williamsburg and the counties of Warwick, York, James City, New Kent, Charles City and Henrico. G. A. Schmez, Pres., Hampton, Va.; W. S. Upshur, Secy. and Treas., Newport News.——The Norfolk County Water Co. has offered to sell its works to the city. W. D. Pender, Attorney; J. M. Keeling, Chn. Com.

HIGH POINT, N. C.—H. M. Kerschner is not interested in the proposed works, to cost $50,000, as noted in our last issue, and therefore should not be addressed. J. J. Cox, Mayor; L. Flagler, Secy. Bd. of Aldermen; Wm. Richardson, Engr.

CHARLESTON, S. C.—The time for asking for bids for constructing the proposed works, to cost about $1,500,000, has been postponed until after the election. No contract has been made with the Newark Water-Works Construction Co., T. A. Beall, Pres., 26 Broadway, New York, and the bidding will be public. A committee of the council, consisting of Mayor Smyth, Aldermen Rhett, Rafferty, Hanley and Mathies, has been appointed to promote the passage of an amendment whereby the city will be allowed to increase its debt for works. The idea is to urge the adoption of this amendment by the voters at the general election in South Carolina in November. J. L. Ludlow, Engr., Winston, N. C.; S. Lepham, Chn. Comrs.

SPARTANBURG, S. C.—The old water company has just changed hands. No new extensions are to be made yet. C. H. Harty, Supt.; J. B. Cleveland, Pres.

APALACHICOLA, FLA.—Bids are asked at once for the purchase of a franchise for works of 50 hydrants. G. W. Hinsly, Cy. Clk.

TAMPA, FLA.—The council has adopted Councilman Frecker's resolution authorizing the city attorney to prepare an ordinance to provide for holding an election to vote on the question of issuing bonds from municipal works and an electric plant, to be secured either by purchase or construction. Pop., 7,000. J. A. Weller, Audr.

CLARKSDALE, MISS.—Reports state that P. H. Porter, Columbia Bldg., Louisville, Ky., has been awarded the contract at $29,000 for constructing works and a sewerage system.

CHATTANOOGA, TENN.—The Boston owners of the water-works have asked the council to extend the franchise. The company is said to have agreed to reduce the rates and to spend about $100,000 in improvements. Wm. Wheeler, Consult. Engr., 89 State St., Boston, Mass.

CALHOUN, KY.—The town clerk is reported to have asked for bids for constructing works.

GEORGETOWN, KY.—This place will soon vote on the question of issuing $50,000 in bonds for works and an electric plant, according to reports. A. H. Sinclair, Mayor.

OWENSBORO, KY.—This place will vote Nov. 6 on the question of building new works. Pop., 15,000. W. P. Small, Mayor.

CINCINNATI, O.—The following bids were received by the board of trustees of the new water works Oct. 16 for constructing and erecting pumping machinery for the eastern pumping station:

	4 pumping engines.	1 electric crane.
Edwd. P. Allis Co., Milwaukee, Wis.	$1,044,000	$11,000
Camden Iron Works, Philadelphia	841,000	9,750
Holly Mfg. Co., Lockport, N. Y.	987,700	10,000
Kilby Mfg. Co., Cleveland.	a819,350	b10,000
	c815,757	d7,500

a, with Babcock & Wilcox boilers; b, with Stirling boilers; c, Brown Hoisting Co. make; d, Cleveland Crane & Car Co. make. The contract for the 15,100 lin. ft. of water tunnel and two shafts has been let to the W. J. Gawne Co., Cleveland, O., at $659,230, its bid being considered the lowest and best. Chas. G. Roth, Clk.

DAYTON, O.—The City Water Supply Co., of Bellaire, O., has been awarded the contract at $2,850 to furnish the state hospital with 500,000 gallons of water a day.

NEW PHILADELPHIA, O.—The question of buying the works for about $97,000 will soon be voted upon.

TOLEDO, O.—The water department, it is stated, proposes to lay about 10 miles of new mains next year.

COLUMBUS, IND.—Stillinger & Lee, of Columbus, have been awarded the contract at about $7,500 for sinking a new well and building a new 36-in. feed line and new intake crib. Levi Hege, Cy. Engr.

FORT WAYNE, IND.—The council has instructed the water-works trustees to examine the compressed air system for an increased water supply. Address Councilmen Hench, Chn. Com., and Hosey. P. J. McDonald, Clk. Bd.

PETERSBURG, IND.—Bids are asked until Nov. 1 for the purchase of a 20-year franchise for water-works, as described in our advertising columns. Frank Thomas, Clk.

GRAND RAPIDS, MICH.—The committee has recommended that the proposition of David Fitzgerald, care of Edmund P. Schmidt & Co., 52 Broadway, New York, for a new water supply from Lake Michigan be accepted. The report was tabled on Oct. 15 for two weeks. Address Mayor Perry. I. F. Lamoreaux, Cy. Clk.

HESPERIA, MICH.—Jerome F. Brush, of Hesperia, has been awarded the contract at $3,200 for extending the mains.

CARROLLTON, ILL.—Bids are asked until Nov. 8 for furnishing the materials and constructing an extension to the works, to include a pipe line, pumping plant, etc., as stated in our advertising columns. Owen Ford, Consult. Engr., 710 Security Bldg., St. Louis, Mo.; Roy Pendt, Cy. Clk.

GALESBURG, ILL.—The Walsh Construction Co., Davenport, Ia., is said to have been awarded the contract by the C., B. & Q. R. R. Co. for constructing a 277,000,000-gallon reservoir.

MOLINE, ILL.—No definite plans for extending the works have yet been adopted. The city has under consideration the question of either putting in an electrical pump or a 5,000,000-gallon high-duty steam pump. A filter plant will also be put in. About $25,000 in bonds will be issued and the balance in water certificates. P. H. Wessel, Mayor.

MOUNT VERNON, ILL.—This place has purchased the works and the electric plant for $100,000. J. J. Hainsworth, Civil Engr., 106 Commercial Club Bldg., Indianapolis, Ind., was the appraising engineer, and also took charge of the negotiations and the financing.

NEOGA, ILL.—The R. Lester Thayer Co., of Peoria, Ill., was awarded the contract recently at $16,800 for constructing works and an electric plant, noted in our issue of Oct. 11. The city and the people must agree to patronize the company to the extent of $3,500 a year. The water supply will be secured from wells.

MONDOVI, WIS.—Bids for furnishing the materials and for constructing the proposed works will probably be wanted about Feb. 1. There will be required a pump, a gasoline engine, underground reservoir, 4, 6 and 8-in. pipe, 30 hydrants, etc.; estimated cost, $16,000. S. G. Gilman, J. D. Pace and C. L. Trowbridge compose the water committee. C. W. Gilman, Mayor.

OSHKOSH, WIS.—The Oshkosh Water-Works Co. is reported as planning to extend its mains in the manufacturing district.

RACINE, WIS.—The question of the extension of the franchise for 30 years of the Racine Water Co. is before the council. Reports state that the council will submit the question to the vote of the people at the coming election.

LEHIGH, IA.—C. M. Kellogg, J. L. Hamilton and A. M. Dubois have been appointed a committee to report on the matter of building works.

NEW LONDON, IA.—Reports state that this place will soon build works and an electric plant.

DASSEL, MINN.—This place has voted to issue $5,000 in bonds for works.

WICHITA, KAN.—The residents of the northwestern section have asked the council to extend the water mains along East Murdock Ave.

LINCOLN, NEB.—No extensions to the water mains are proposed, except a few blocks in different sections of the city. Adna Dobson, Cy. Engr.

PLATTSMOUTH, NEB.—The Plattsmouth Water Co. proposes to improve its works, including the sinking of deep wells and the putting in of an air-life system. H. M. Plumer, Pres., Rochester, N. Y.

LIDGERWOOD, N. DAK.—This place is reported as making arrangements to build works.

GREAT FALLS, MONT.—The city has recently made some improvements to the works it lately bought. More improvements are contemplated, but no appropriations have yet been made. Pop., 16,000. C. W. Swearingen, Cy. Engr.

HELENA, MONT.—No steps have been taken as yet to secure a new water supply further than the preliminary matters for acquiring water rights, etc. Plans and specifications for the distributing system have been prepared, and there will be required about 4,000 tons of cast-iron pipe. Pop., 11,000. Chas. W. Helmick, Acting Cy. Engr.

ALBANY, MO.—This place has voted to issue bonds for works.

DANVILLE, ARK.—J. E. Wooten and M. B. Johnson have been granted a franchise for works, an electric plant and a telephone system.

GURDON, ARK.—The Gin & Mill Co. proposes to build works and an electric plant. E. A. Whitmore, Pres.; J. B. Seahorn, Secy.

GALVESTON, TEX.—Water Commissioners Cannon and Drewry and Superintendent Temple are considering the matter of rebuilding the pumping plant, destroyed by the recent storm.

SPOKANE, WASH.—H. Orchard, Pres. Orchard Wooden Pipe Co., Spokane, has been awarded the contract by E. W. Wheeler for the pipe for the new works for a town in Idaho with a population of 1,000.

SPOKANE, WASH.—City Engineer Weile is completing plans for the remodeling of the works. Work on the reservoir will probably be begun by January, and that for the enlargement of the principal water mains during the summer. A new first-class steam fire engine will probably be purchased in December.

OREGON CITY, ORE.—Estimates for new gravity works will soon be prepared, the water supply to be secured from the north fork of the Clackamas River, about 25 miles distant. Address Commissioners T. L. Charman and R. D. Wilson and City Engineer J. C. Bradbury.

MARYSVILLE, CAL.—The following bids were received by the council Oct. 11 for a new pumping plant, to consist of a centrifugal pump and an electric motor; all of San Francisco: Byron Jackson Machine Works, $5,986, motor to have an efficiency of not less than 90%, 100 HP.; John Martin & Co., $6,526, $6,126 and $5,986, 96-HP. motor; W. F. Garrat & Co., $4,400.

MONROVIA, CAL.—The question of building an 8,000,000-gallon reservoir is being considered, according to reports.

PETALUMA, CAL.—It is proposed to build a reservoir to have a capacity to supply water to this place for the next 20 years. M. Doyle may be addressed.

SAN DIEGO, CAL.—The supreme court has rendered a decision against the proposed issue of $1,500,000 in bonds for the proposed new works to be built by the Mountain Water Co., organized by J. D. Spreckles, of San Francisco. A new plant is now proposed. The company will probably proceed with its part of the work.——It is said that the council has passed an ordinance making an offer to purchase the works of the San Diego Water Co. for $100,000 and the distributing system of the Southern California Mountain Co., for $100,000. The Mayor signed on Oct. 15 an ordinance offering city bonds for $600,000 for the two water pipe systems and pumping plants of private owners in this city. Offer is open for 30 days, when it is said, a new bond election will be called.

SAN FRANCISCO, CAL.—The Spring Valley Water Works Co. proposes to extend its works, the new supply to be secured from the gravel beds in Alameda Creek. Herman Schussler, Ch. Engr.

WEISER, IDAHO.—Bonds for the proposed works have been advertised. Bids for the construction have not yet been asked, as the kind of system has not yet been decided upon. The water supply will be secured from Snake River. Pop., 2,000. C. S. Fosselman,, Secy. Bd. of Trade.

SALT LAKE CITY, UTAH.—City Engineer Kelsey has completed plans for dredging for a better water supply. The council and the various canal companies and the Salt Lake City Water & Electric Power Co. are considering the question of joint action to obtain an additional water supply from Utah Lake, to cost about $200,000. A pipe line, 10 miles long, to cost $300,000, is also proposed. A meeting will be held Nov. 7. Address A. M. Cannon and Alderman Davis, Chn. Com.——The Red Rock Irrigation & Power Co. has been incorporated with a capital of $50,000. W. P. Kiser, Pres.; H. H. Harries, Vice-Pres.; John Flowers, Secy.

DARTMOUTH, N. S.—Bids were received Oct. 22 for the purchase of $5,000 of bonds for extending the works and the sewerage system. Alfred Elliott, Town Treas.

HINTONBURG, ONT.—Robert Surfees, Ottawa, Ont., is said to have been engaged to superintend the extension of the works.

PARRY SOUND, ONT.—It is proposed to extend the works at a cost of about $5,000 and to buy the electric plant at a cost of about $20,000.

WESTON, ONT.—This place will not build works this year, as was recently reported. W. F. C. Jarlton, Reeve.

WHITBY, ONT.—R. E. Speakman, Canada Life Bldg., Toronto, is reported to have been engaged to prepare plans for works.

MOYIE, B. C.—The Moyie Water Co. has been incorporated with a capital of $25,000 by J. A. Harvey and J. P. Farrell. Work, it is stated, will be begun this fall.

SEWERAGE.

BOSTON, MASS.—Bids are asked until Nov. 12 by the Metropolitan Sewerage Commissioners, 1 Mt. Vernon St., for constructing sections 58, 59 and 60 of the Metropolitan sewer in Malden and Melrose, requiring about 15,000 ft. of 30 to 54 × 58-in. sewers, as stated in our advertising columns. Wm. M. Brown, Ch. Engr.

FAIRHAVEN, MASS.—A special town election will soon be held to vote on the question of an additional appropriation for new sewers.

NEW BRITAIN, CONN.—The sewer committee is said to be considering the erection of a disposal plant and will submit a report to the council on Nov. 21.

BINGHAMTON, N. Y.—We are informed that the city engineer is preparing plans for extending the sewers by a trunk line farther down the Susquehanna River. No money has yet been appropriated for the work. S. E. Monroe, Cy. Engr.

BROOKLYN, N. Y.—Bids are asked by the department of sewers, 21 Park Row, New York, until Oct. 31 for constructing a sewer in Meserole St. and an outlet sewer in Waterbury St. James Kane, Comr.

CENTRAL ISLIP (L. I.), N. Y.—Bids are asked until Oct. 20 for constructing a sewage disposal plant at the Manhattan State Hospital, including manholes, pumping station, steam pump, air compressors, and pipe laying and back filling, excavation to be done by the state, as stated in our advertising columns. H. E. Howland, Pres. Bd. Mgrs., 1 Madison Ave., New York.

LONG ISLAND CITY, (L. I.), N. Y.—The board of public works is said to have authorized the construction of a sewer on Newtown Ave., Astoria, to cost about $23,800.

RENSSELAER, N. Y.—The council is said to be considering the question of extending the Columbia St. sewer.

SYRACUSE, N. Y.—The council has passed final ordinances for constructing 12 to 24-in. brick and pipe sewers in 35 streets. R. R. Stuart, Cy. Engr.

TANNERSVILLE, N.Y.—We are informed that this city wishes to grant a franchise to parties wishing to build a system and water-works. John A. Longyear, C. E., Kingston.

HADDONFIELD, N.J.—The borough council is said to be considering the question of constructing a sewerage system.

IRVINGTON, N. J.—The council has passed the joint sewer ordinance, which provides for a main and branches to cost about $56,826.

PASSAIC, N. J.—Bids are asked by the sewer committee until Oct. 26 for constructing an 8-in. pipe sewer in Exchange Place.

SUMMIT, N. J.—Bids are asked until Nov. 7 for constructing about 800 ft. of 6-in. pipe sewer in Beauvoir Ave. Daniel C. Day, Cy. Clk.

WEST ORANGE, N. J.—The council is said to have passed the joint sewer ordinance.

ALLEGHENY, PA.—The committee on public works has authorized Robert McAffee, Dir., to readvertise for bids for several sewer improvements.——Ordinances have been passed providing for sewers in Woods Run, and River View Aves., and William St.

MERCHANTVILLE, PA.—Petitions are, according to reports, being circulated, asking for an appropriation to construct a system.

BALTIMORE, MD.—We are informed that the property owners at Walbrook, a suburb of this city, are asking the city to construct a system for an area of about 150 to 250 acres. A septic tank has been suggested for use until the system is built. Legislation will be asked of the council, covering such plans as seem best. O. W. Connet, Asst. Cy. Engr.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Nov. 24 for constructing the boundary sewer, as stated in our advertising columns.——The commissioners have ordered a sewer constructed in 24th St., to cost about $2,500.

RICHMOND, VA.—We are informed that the council has taken no action as yet regarding the construction of a sewer through penitentiary bottom. W. E. Cutshaw, Cy. Engr.

COLUMBUS, O.—City Engineer Griggs has completed plans for the sewer commission for a system including disposal, and pumping plants, to cost about $1,703,223. The state board of health now has the plans under consideration. L. B. Kaufmann, Dir. Pub. Improvements.

SPRINGFIELD, O.—The contract for constructing the Woodlawn Ave. sewer has been let to Ulrick & Williams.

TOLEDO, O.—Bids are asked until Oct. 28 for constructing a 30-in. brick sewer in Kelsey Ave. and 24 to 8-in. pipe sewers in several alleys. John E. Connell, Cy. Clk.——The city engineer has been directed to prepare plans for draining the district bounded by Moore, Page, Locust and Lagrange Sts.

DETROIT, MICH.—The board of public works has been directed to advertise for bids for constructing a sewer in State St., to cost about $5,560.

MORRIS, ILL.—The board of local improvements has let the contract for constructing the sewer in the Liberty St. district to James Healey, of Morgan Park, at $3,540.

WAUWATOSA, WIS.—The special sewerage committee is said to be in favor of constructing a system with septic tanks and will receive correspondence on the subject.

DES MOINES, IA.—We are informed that bids have not been asked for constructing a sewer in East Ninth St., and nothing will be done in the matter this year.

DES MOINES, IA.—It is stated that the council has decided to build a 12-in. pipe sewer in Clark St. E. R. Bennett, Cy. Clk.

DUBUQUE, IA.—We are informed that it has not been definitely decided to extend the sewer in Dodge St. If done the work will require about 960 ft. of 7½ ft. stone sewer, with an average cut of 12 ft., to cost about $7.50 per lin. ft. E. C. Blake, Cy. Engr.

TOLEDO, IA.—We are informed that this city has engaged M. Tschirgi, of Dubuque, to prepare plans for a system. Contracts for a mile of which will be let next month.

WATERLOO, IA.—This city has voted to issue $60,000 in bonds for sewer work, but it is not likely that any definite steps will be taken before next spring, according to reports.

ST. PAUL, MINN.—The board of public works has let the contract for constructing a sewer in Aldine St., to Patrick Dougherty, 608 West Seventh St., at $4,793.

TUCSON, ARIZ.—This city is considering the question of building a system according to plans already drawn, to cost about $80,000. Henry Branch, Supt. Water Dept.

FLORENCE, COLO.—The contract for constructing the sewerage system here has been let to Piper Bros., of Pueblo, at $31,805, according to reports.

SPOKANE, WASH.—The following were the two lowest bids received by the board of public works for constructing a sewer in Maple St. H. A. Hutchinson, $1,798; Hasty & Dugan, $1,993.

VISALIA, CAL.—The people of this city are said to be in favor of constructing a system and water-works.

CAMPBELLTON, N. B.—Willis Chipman, C. E., of Toronto, Ont., estimates the cost of building a system for this city at about $25,000.

GARBAGE DISPOSAL—STREET CLEANING

PITTSFIELD, MASS.—The question of a better method for disposing of the garbage is said to be under consideration. Address J. J. Nelligan, of the board of health.

ALBANY, N. Y.—Commissioner of Public Works Bissell has reported against the placing of garbage cans on the streets, as it is alleged that they would create a nuisance.

TRENTON, N. J.—The question of erecting a crematory is said to be under discussion, the present contract for collecting and disposing of the garbage expiring in the spring.

PROVIDENCE, R. I.—The council committee, it is stated, will soon report on the matter of a crematory.

OIL CITY, PA.—The city officials are examining crematories in other cities with a view to erecting one in Oil City, bids for which were recently received. C. M. Loomis, Chn. Com.

READING, PA.—Another site for the proposed crematory is said to have been selected. The city at present buries its garbage at Millmont. About 20 tons a day is collected.

COLUMBUS, GA.—The suggestion that this city have a garbage disposal plant was turned down by the council. L. H. Chappel, Mayor.

BIRMINGHAM, ALA.—Mayor Drennen has appointed Aldermen Altman, Kerr and Harrington a committee to investigate whether it would be advisable for the city to purchase teams and outfits and undertake to collect and remove the garbage under the direction of Street Commissioner McCartin or to contract for the work as at present.

MILWAUKEE, WIS.—Councilmen H. C. Schrank, Chas. Daumling, F. J. Luedke and E. F. Deuster are visiting certain cities inspecting the crematories with a view to making new arrangements for building a plant.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked by the Massachusetts Highway Commission, 4 Mt. Vernon St., until Oct. 25 for constructing 1,200 ft. of state highway in the town of Barre, 4,500 ft. in Reading and Stoneham, 5,800 ft. in Truro, and 2,300 ft. in Northborough.

HARWICK, MASS.—The highway commissioners have let the contract for constructing the state road in this town to J. Fletcher Doane, of Chatham, at $2,402.

PROVIDENCE, R. I.—Press reports state that this city proposes to spend $30,000 in building the Allen Ave. boulevard.

ALBANY, N. Y.—The council has passed an ordinance for widening Orange St., to cost about $50,000.

SYRACUSE, N. Y.—The council will pave Laurel, East Genesee and Grape Sts. with asphalt, grade Cherry St. and South Ave., and extend Gleason St., 66 ft. wide. The city engineer has completed plans for paving West Belden Ave., and Wallace St. R. R. Stuart, Cy. Engr.; J. H. Saunders, Cy. Clk.

JERSEY CITY, N. J.—The following contracts have been awarded to John Nolan, opening and improving Roman Ave., at $25,835 and Fowler Ave., at $34,843.——The street and water board has accepted final maps for the improvement of Vroom, Union and Maple Sts.

JERSEY CITY, N. J.—Bids are asked by the board of street and water commissioners until Oct. 30 for improving Marion Place, requiring about 1,240 sq. yds. of belgian block paving and 3,000 sq. ft. of flagging. Geo. T. Bouton, Clk.

PASSAIC, N. J.—Bids are asked by the committee on streets until Oct. 26 for macadamizing Summer St., and for flagging Central Ave. and Sixth St.

ALTOONA, PA.—Bids are asked until Nov. 2 for macadamizing Willow Ave. and Fourth St. F. C. Gerhardt, Chn. Highway Com.; W. J. Hamor, Cy. Clk.

PHILADELPHIA, PA.—The bureau of surveys has completed plans for widening Delaware Ave., from Vine to Green Sts., at a cost of about $1,000,000.

WEST LIBERTY, PA.—Bids are asked until Oct. 26 for grading West Liberty Ave., 30 ft. wide from the city line to Espey Farm in Scott township. L. G. Woods, Boro. Engr., 413 Fourth Ave., Pittsburg.

WILMINGTON, DEL.—The street and sewer department is considering the question of issuing $10,000 in bonds for extending Fourth St. to the river, according to reports.

RICHMOND, VA.—We are informed that no action whatever has been taken in reference to asphalting Franklin, Grace, 31st, Floyd and Park Aves. and Leigh St. W. E. Cutshaw, Cy. Engr.

RICHMOND, VA.—Bids are asked until Oct. 30 by the Richmond Passenger & Power Co. for taking up old tracks, removing old material, restoring street grade and repaving with granite spalls Franklin, Ninth, Bank and 12th Sts. Calvin Whiteley, Jr., Gen. Supt. and Engr., 709 East Main St.

ATLANTA, GA.—The street committee is said to be considering the question of paving Pryor St.

CANTON, O.—This city is said to have sold $9,500 in bonds for street improvements.

CINCINNATI, O.—The board of public service has passed a resolution to improve Butler St. at a cost of about $12,076.

NILES, O.—Press reports state that this city recently sold $42,000 in bonds for paving, etc.

TOLEDO, O.—Bids are asked until Nov. 5 for paving Erie St. with blocks and until Nov. 19 for paving 13th St. with blocks. J. E. Connell, Cy. Clk.——Petitions are being circulated asking the council to widen Starr Ave.

EAST CHICAGO, IND.—Bids are asked until Oct. 31 for constructing a macadam road about 4,470 ft. long, in North township. Henry Schrage, Trustee, Opera House Block.

SAGINAW, MICH.—The council has authorized the paving of Lapeer St., with cedar from Jefferson Ave. to Sixth St., to cost about $17,709, and from Sixth St. to the city line, to cost about $14,696.

COUNCIL BLUFFS, IA.—The council has passed an ordinance providing for the paving of First and Fifth Aves. and Sixth and Eighth Sts., with asphalt.

MINNEAPOLIS, MINN.—A resolution has been introduced in the council providing for an election to vote on the question of issuing $150,000 in bonds for permanent street improvements.

ST. PAUL, MINN.—The board of public works is said to be considering the question of paving Eighth St.

BUTTE, MONT.—City Engineer F. C. Bickenback is said to have prepared plans for paving a number of streets in the business portion of this city. Four new paving districts have also been formed which will probably be paved next spring.

MARYVILLE, MO.—We are informed that bids were asked until Oct. 22 for constructing about 4,000 sq. yds. of brick pavement, to cost about $5,000. Geo. Custer, Engr., J. C. Donnell, Mayor.

SAN FRANCISCO, CAL.—C. E. Grunsky, Cy. Engr., is preparing plans for repaving Grant Ave., to cost about $10,000.——The board of public works will soon receive bids for paving Fourth St. with basalt, to cost about $8,800, and for macadamizing and improving 19th Ave., and Trocadero Gulch, to cost about $10,000.

MANUFACTURING PLANTS.

ROCHESTER, N. Y.—It is stated that the Acetylene Mfg. Co. is to build a plant on the lands of the Niagara Falls Power Co.

UTICA, N. Y.—H. P. Snyder & Co., Little Falls, have plans for a new addition to their plant, in which automobiles will be manufactured.

PHILADELPHIA, PA.—Permission has been applied for by Thomas M. Seeds, Jr., to build a six-story factory building, 50 × 93 ft., to cost $30,000.

UNIONTOWN, PA.—The contract for building the Fayette Brewing Co.'s plant on Fayette St., this town, has been awarded to Frederick Rautert, of Chicago. The plant will cost about $90,000.

OXFORD, MD.—The Cambridge Water Works, of Cambridge, Md., are contemplating the erection of an ice plant in this town.

RADFORD, VA.—The Radford Electric Light & Power Co., which is now putting in an 800-HP. plant near the mouth of the Little River, three miles from here, proposes to give to any new industry starting up in the city free power for one year, and after that period will enter into contract to furnish power on a basis of $25 per HP. per year. Geo. W. Miles, Pres.

LITTLETON, N. C.—L. Vinson writes us that a 40-HP. boiler, a 30-HP. engine, heating pipe, etc., will be purchased for the proposed manufacturing plant to be established here. The building has been contracted for.

CHARLESTON, S. C.—The Royal Bag & Yarn Mfg. Co. has been incorporated with a capital stock of $225,000, to manufacture yarn and convert it into seed bags, etc. A plant equipped with 5,000 spindles and 125 bag looms will be erected. Geo. A. Wagener, Pres., and Jas. M. Seignions, Vice-Pres.

COLUMBIA, S. C.—The DeKalb Cotton Mill of Camden has been chartered with $200,000 capital stock. E. Miller Boykin, Pres., and T. C. Duncan, Vice-Pres.

LANCASTER, S. C.—The contract for building the new cotton mill in this place, was recently let to T. C. Thompson & Bro., Birmingham, Ala. The building will cost about $150,000, and will be completed within seven months.

NEWBERRY, S. C.—W. H. Day, Pres., Newberry Knitting Mill, informs us that the equipment and building for the company's plant will be contracted for at once. The plant complete will cost about $16,000.

EATONTON, GA.—The contract for building the Middle Georgia Cotton Mills at this place, has been awarded to J. W. McMillan & Sons, Middlegeville. The building will be a three-story structure, designed for a capacity of 5,000 spindles, with their complement of looms, and also for a future extension of the capacity to 12,000 spindles. The power plant will be similarly arranged.

SOCIAL CIRCLE, GA.—The citizens of this town have organized a company to build a $100,000 cotton mill, and have elected J. B. Robinson president.

SPARTA, GA.—It is stated that Richard Baxter, Daniel Ferguson and Ed. A. Rozier, of Sparta, will establish a cotton factory at this place, with a capital stock of $150,000.

ALEXANDER, ALA.—Dr. A. J. Coley writes us that the contracts for the proposed cotton mill to be built by D. L. Lewis and others of this place will be let at once. The plant will be capitalized at $200,000.

GADSDEN ALA.—C. R. Goldman, President of the Queen City Bank, is said to be at the head of a move to establish a $100,000 cotton mill in this city.

GULFPORT, LA.—Leland J. Henderson, of Bay St. Louis, is said to be seeking a location for a $50,000 furniture factory, to be located here.

SCRANTON, MISS.—It is stated that A. Summergill, New Orleans, La., will build a new 16-ton ice factory in this town.

SOUTH BEND, IND.—The Singer Mfg. Co. is said to have awarded a contract for a new factory to be located in the western part of this city. It is stated that the building will cost about $600,000, and will be completed by Aug. 1, 1901.

MILWAUKEE, WIS.—The Wisconsin Sugar Co. has been organized with $350,000 capital stock, to operate the plant of the former Wisconsin Beet Sugar Co., of Menominee Falls. New machinery will be added. Richard Wagner and Jacob Whittaker are interested.

LOCKHART, TEX.—It is stated that the Lockhart Water-Works will locate a five-ton ice plant in connection with its works in this city. C. E. Jones, Supt.

WHARTON, TEX.—It is reported that the cane planters of Wharton county are considering the proposition of building a central sugar refinery at this place, to cost about $160,000.

BLAINE, WASH.—L. W. David has secured a location in this town for a plant to consist of a saw mill, a shingle mill, a box factory and an electric light plant, according to reports.

MISCELLANEOUS CONTRACTS.

HOOK AND LADDER TRUCK.—Waterford, N. Y.—Bids are asked until Oct. 29 for furnishing one hook and ladder truck. T. F. Bootman, Village Clk.

FIRE ALARM SYSTEM.—New Glasgow, N. S.—Reports state that the people recently voted to issue $[illegible],000 in bonds for constructing a fire alarm system.

RETAINING WALL.—Cincinnati, O.—Bids are asked by the board of public service until Nov. 1 for rebuilding a portion of the retaining wall on Third St.

REVETMENT WALLS.—Columbus, O.—Bids are asked by the state board of health, until Oct. 30 for constructing two revetment walls along the water lines of the canal.

SAND DRYER.—Reading, Pa.—Bids are asked by the city clerk until Nov. 1 for a sand dryer, capable of drying and purifying 50 tons of sand a day, as stated in our advertising columns.

HOISTING ELEVATOR.—Pensacola, Fla.—Bids are asked until Oct. 30 for furnishing one hoisting elevator complete at the navy yard. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

SCALING LADDERS.—San Francisco, Cal.—Bids are asked, according to reports, until Nov. 3 for furnishing a number of scaling ladders for the fire department. J. W. McCarthy, Secy. Bd. Fire Comrs.

SPILE DOCK.—Jamestown, R. I.—Bids are asked until Nov. 6 for erecting a spile dock for the Jamestown & Newport Ferry Co., at Jamestown, as stated in our advertising columns. C. E. Werden, Gen. Mgr.

FIRE APPARATUS.—Crookston, Minn.—Bids are asked according to reports, until Oct. 30 for one combination hose and chemical wagon, one hook and ladder truck, and one set double harness. W. A. Lanclot, Cy. Clk.

CABLES.—League Island, Pa.—Bids are asked until Nov. 10 for installing about 8,265 ft. of copper stranded cables in underground conduit at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

AMBULANCES.—New York, N. Y.—Bids are asked by the department of public charities, foot of East 26th St., until Nov. 5 for building three ambulances for use at Bellevue hospital and one city hearse for the Harlem hospital.

STATE CANAL WORK.—Albany, N. Y.—J. N. Partridge, State Supt. Pub. Wks., has let the contract for improving the Shinnecock and Peconic Canal or Long Island to Bummelkamp & Lane, 212 The Bastable, Syracuse, at $11,710.

DREDGING, ETC.—Philadelphia, Pa.—Bids are asked until Nov. 23 for dredging and meadowbank construction in Mantua Creek, N. J., as stated in our advertising columns. Lieut.-Col. C. W. Raymond, U. S. Engr., Witherspoon Bldg.

TRAINING DYKES.—Savannah, Ga.—Albert J. Twiggs, 352 Greene St., Augusta, is said to have submitted the lowest bid at $29,360 to Capt. C. E. Gillette, U. S. Engr., for constructing training dykes in the Savannah River, near Augusta.

TUNNEL.—Ft. Benton, Mont.—The following bids have been received by the county commissioners, Oct. 15, for boring a tunnel through Shonkin Hill: E. F. Sayre, Clk.: (1) being for boring tunnel, (2) for building approaches and (3) total: D Legerwood, (1) $9,680, (2) $1,360, (3) $11,040; Dahlberg & Burns, (1) $8,250, (2) $940, (3) $9,190. Contract not let.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Nov. 13 for furnishing a quantity of machine tools, lumber, cement, piles, etc., at the navy yard, Mare Island, Cal., and for a quantity of machine tools, screws, copper, tin, a traveling crane, etc., at the naval station, Puget Sound, Wash. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

DRY DOCK.—San Francisco, Cal.—We are informed that the contract for constructing the new dry dock at Hunter's Point for the San Francisco Dry Dock Co. has been let to the City Street Improvement Co., Mills Bldg., at $404,000, including Babcock & Wilcox boilers, and Allis engines. Work will probably start in about ten days and is to be completed in 18 months. H. C. Holmes, Ch. Engr.

PIER WORK.—Duluth, Minn.—The following bids are said to have been received Oct. 12 by Maj. C. B. Sears, U. S. Engr., in response to a circular letter for removing the old south pier in Duluth canal, item (1) being for removing old south pier, complete, (2) for placing rock in rear of new piers, 1,500 cords per cord: Duluth Dredge & Rock Co., Duluth, (1) $15,000, (2) $4.50, total $21,750; E. T. Williams & Sons, Duluth, (1) $19,500, (2) $5.25, total $27,375; Charles S. Barber, West Superior, Wis., (1) $17,000, (2) $5.50, total $25,250.

COAL-HANDLING APPARATUS.—Washington, D. C.—The following bids are said to have been received by Jas. K. Taylor, Supv. Arch., Treasury Dept., for a coal and ash handling apparatus and coal crusher at the bureau of engraving and printing, (1) being for handling apparatus and (2) for crusher: New Jersey Foundry & Machine Co., New York, (1) $7,725, 135 days, (2) $2,150, 135 days; C. W. Hunt Co., New York, (1) $8,882, (2) $2,080, 60 days; Wm. A. Meade Mfg. Co., New York, (1) $7,936, (2) $1,900, 90 days; Steel Cable Engineering Co., 92 State St., Boston, Mass., (1) $8,160, (2) $1,800, 5 months.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Oct. 30 for furnishing a quantity of pig iron, rivets, wire rope, nails, steel, etc., at the New York (N. Y.) navy yard; a quantity of machine tools, bending rolls and locomotive crane, sheet iron, etc., at the Boston (Mass.) navy yard, and a quantity of pig lead, cement, sand, broken stones, etc., at the Washington (D. C.) navy yard; also a quantity of machine tools, lumber, bolts, sand, steel, for concreting about 2,500 sq. yds. for building two cisterns and for laying about 1,200 ft. of terra cotta pipe, at the navy yard, Norfolk, Va. A. S. Kenny, Paymaster Gen., U. S. N.

RAILWAY ROLLING STOCK.—Philadelphia, Pa.—It is stated that the Pennsylvania R. R. Co. has asked for bids for 1,000 freight cars, of which 600 are to be box cars. D. S. Newhall, Pur. Agt., Philadelphia.——The Atchison, Topeka & Santa Fe Ry. is preparing specifications for 600 additional hopper-bottom coal cars. W. E. Hodges, Gen. Pur. Agt., Chicago.——The following orders are reported placed: For 400 coal cars by the New York, New Haven & Hartford R. R., with the American Car Co.; for eight new Pullman cars by the Northern Pacific R. R.; for 500 hopper-bottom coal cars by the Buffalo, Rochester & Pittsburg R. R., and by the St. Louis & San Francisco R. R. for 50 furniture and 100 box cars.

STEEL TOWER.—New London, Conn.—We are informed that the following bids were received Oct. 22 by Maj. Smith S. Leach, U. S. Engr., for constructing a steel frame tower at Great Gull Island, (1) being bid, (2) time for materials at Great Gull Island, (3) time for completion of work: L. A. Gerber, New York, N. Y., (1) $5,800, (2) 90 days, (3) 30 days later; West Side Foundry Co., Troy, N. Y., (1) $3,695, (2) 60 days, (3) Jan. 15; Ellicott Machine Co., Baltimore, Md., (1) $3,537 (accepted), (2) 90 days, (3) May 15; Greenlie, Wyatt & Co., New York, (1) $3,790, (2) 100 days, (3) March 1; Soare & Triest, New York, (1) $5,160, (2) 90 days, (3) March 1; New Jersey Foundry & Machine Co., New York, (1) $3,880, (2) 120 days; Robert S. Bishop, New York, (1) $4,200, (2) 100 days, (3) April 1; Hoffman Engineering & Contracting Co., Philadelphia, Pa., (1) $6,500, (2) 90 days, (3) June 1; The Sneed & Co. Iron Works, Jersey City, N. J., (1) $5,437, (2) 75 days, (3) Feb. 1; American Bridge Co., Boston, Mass., (1) $3,725.

FOREIGN CONTRACTS AND EXPORT NEWS.

DREDGING.—San Sebastian, Spain.—Bids are asked by the Director-General of Public Works, Madrid, until Nov. 5 for dredging in San Sebastian harbor.

ROAD ROLLERS.—Madrid, Spain.—Bids are asked by the municipality until Nov. 3 for furnishing two steam road rollers, no bids having been received Sept. 25.

COTTON CONCESSION.—Managua, Nicaragua.—Reports state that Senor Pedro Mas, of Mexico, has secured a five-year concession to manufacture cotton articles with English machinery.

RAILWAY.—Pontpellier, France.—It is stated that F. Icard & Champion, 5 Cours St., Louis, Marseilles, France, have been awarded the contract at about $100,000 for sections 1 and 2 of the new railway.

PUBLIC LIGHTING.—Singapore, Straits Settlements.—We are informed that it is proposed to extend the lighting of this city, either by electricity, gas or acetylene. Pop., 100,000. S. Tomlinson, Cy. Engr.

HOTEL.—London, Eng.—Reports state that Mrs. Hetty Green and Russell Sage, 71 Broadway, New York, and Jas. J. Hill, Minneapolis, Minn., are said to be interested in a proposed hotel for working girls.

DRYING CHAMBER.—Malines, Belgium.—Bids will soon be asked by the director of the states arsenal for a chamber for drying wood. It will be 60 x 66 ft., with a chimney 4 ft. inside diameter and 66 ft. high.

IRRIGATION.—Mexico.—The Compania de Atequiza y Anexas has been organized, at Mexico City, with capital of $5,000,000 for supplying water for irrigation and to develop 25,000 HP. on the Atequiza hacienda.

NAPHTHA CONCESSIONS.—Russia.—Bids are asked by the Russian government, St. Petersburg, until Nov. 23 for the purchase of naphtha concessions in Saboustschy, Balakhansk, Bibi-Elbat and Binagody (Balkan).

FIRE ALARM BOXES.—Hanover, Germany.—The Telephone-Fabrik Co., J. Berliner, Mgr., Kniestr, 18, Hanover, informs us that it wants the names and addresses and price lists, etc., of concerns manufacturing fire alarm boxes.

WATER-WORKS.—Brunswick, Germany.—A contract for furnishing a pump of 5,032 cu. meters capacity for the proposed new water-works has been let to A. Borsig, of Berlin-Tegel. Pop. 150,000. Address the Chamber of Commerce.

HARBOR IMPROVEMENTS.—Trieste, Austria.—The government has agreed to begin at once the improvements to the harbor at Trieste. The municipality, it is stated, will contribute about $200,000 towards the work. Address the Chamber of Commerce.

GAS LIGHTING.—Vienna, Austria.—Reports state that the council of Vienna has concluded gas lighting contracts with the councils of Stadiau, Aspern, Hirschstetten, Eslingen and Enzersdorf, suburbs of Vienna. Address the Chamber of Commerce.

ELECTRIC PLANT.—Belfast, Ireland.—Bids are asked until Nov. 23 for steam pipes, pumps, condensing plant, boilers, stokers, coal and ash-conveying machine, etc., for the new electric plant. Fee for specifications, $5. V. A. H. McCowen, Cy. Elec. Engr.

GUNBOAT AND WAR MATERIAL.—Lima, Peru.—Reports state that Senhor Carbajal, former Minister of Marine, left for Europe Oct. 22, going by way of Panama and the United States, to purchase a gunboat for the Peruvian government, together with war material.

ELECTRIC PLANTS.—Melbourne, Victoria.—The Victoria Electric Light, Heat & Power Distributing Corporation has applied for franchises for power plants to furnish light, heat and power to all the districts of Melbourne and vicinity. T. Holroyd, Secy. and Engr.

ROLLING STOCK.—India.—Bids are asked until Nov. 20 for furnishing the Nizams Guaranteed State Ry. Co., Ltd., Winchester House, 50 Old Broad St., London, E. C., a supply of carriages, 300 underframes, 600 pairs of wheels and axles. Fee for specifications, $5 each, not returnable. H. Rendel, Secy., London.

BRIDGE.—Bokhara, Russia.—A correspondent informs us that the Russian government will build a metallic bridge a mile long over the Amou-Daria (Bokhara) for the Transcaspian Ry.; the cost, including the canalization of the Amou-Daria, is estimated at $2,670,000. I. K. Ivanovski, Engr., Aschabad, Russia.

ACETYLENE LIGHTING PLANT.—Also-Kubin, Hungary.—V. Berdenich, Civil Engineer, of Buda-Pesth, has been engaged to prepare plans for an acetylene lighting plant of 1,000-light capacity. The price for street lighting is fixed at 3 heller per 20-c. p. hours, and 2 kroner per cubic meter of acetylene gas.

GAS WORKS.—Charlottenburg, Germany.—Improvements are to be made to the gas-works, which will include a new holder of 80,000 cu. meters capacity, and the adding of 14,000 cu. meters capacity to plant No. 1. Preparatory works will be built at once, as it will take nearly three years to complete the work.

LAND DEVELOPMENT.—Philippine Islands.—We are informed that S. W. Walker, of Martinsburg, W. Va., applied for the charter for the Philippine Land Improvement Co., recently incorporated with a capital stock of $5,000,000, to develop land, mines, etc., and in which Christian H. Hulbert and Edwin C. McCullough, of Manila, are interested.

RAILWAY.—Hawaii.—Reports state that work on the proposed Kohala & Hilo Ry., from Hilo to Mahukona, 116 miles, has been begun. A mortgage for $3,500,000 has been filed with the North American Trust Co., 100 Broadway, New York. The line will be standard gage. H. B. Gehr, Pres., Honolulu and Chicago; John S. Walker, Secy., Jaudon Browne, Gen. Mgr., 1003 Betz Bldg., Philadelphia.

RIVER STEAMER.—Mexico, Mex.—We are informed that V. Cascino, Manufacturers' Agent, Apartado Postal 911, Mexico City, wants estimates for a river steamer that can be used for towing purposes. It must be 65 ft. over all and 15 to 18 ft. wide, and have a steel hull, powerful machinery, two decks, a wood burning boiler, a speed of 12 to 14 miles an hour and a draft of 20 ins. loaded.

RAILWAY WORK AND ROLLING STOCK.—England.—The Great Western Ry. Co. has decided to spend about $2,750,000 for improving and extending its road, $175,000 for new goods engines, $150,000 for ballast and coal cars, $150,000 for a new machine shop, $175,000 for improving Weymouth Harbor, etc. J. N. Inglis, Ch. Engr., Paddington Station, London; W. Dean, Ch. Supt. Locomotive and Carriage Dept., Swindon.

ELECTRIC PLANTS.—China.—We are informed that Shewan, Tomes & Co., exporters to China, 16 Beaver St., New York, have let contracts to the Westinghouse Electric & Mfg. Co., the Western Electric Co., Loebel & Andrews, of New York, Bolenbush Electric Co. and the Heine Safety Boiler Co., for an electric light plant, to cost $60,000, at Kow-loon, South China. Other electric plants are also said to be under consideration.

ROLLING STOCK.—Finland.—The state railway administration, G. Stromberg, Chn. and Gen. Mgr., Helsingfors, Finland, is said to be about to purchase the following rolling stock: 12 passenger locomotives to cost a total of about $200,000; 20 goods locomotives to cost $300,000; 250 closed goods wagons, $190,000; 250 open goods trucks, $154,000; 16 steam engines, $175,000; 50 passenger coaches, $120,000; 35 guards and luggage vans, about $60,000. K. A. Nordman, Ch. Engr. Rolling Stock, Helsingfors.

RAILWAY MATERIALS.—Adelaide, South Australia.—Bids are asked by the supply and tender board, Adelaide, until Dec. 5 for furnishing 300 boiler plates, 44 smoke-box tube plates for flanging, 494 plates charcoal iron, 710 bars best soft rolled copper, 6,462 solid drawn copper boiler tubes, 44 spiral springs for safety valves, etc. The conditions, condensed, may be seen at the office of Engineering News, 220 Broadway, New York.

GAS AND ELECTRIC LIGHTING.—Matanzas, Cuba.—Bids are asked until Dec. 15 for the purchase of a franchise for lighting Matanzas with gas or electricity, and for electric tramways, as stated in our advertising columns. Pop., 50,000. Specifications, in Spanish, may be obtained from Jimenis & Co., 114 Wall St., New York, or may be seen at the office of Engineering News, 220 Broadway, New York. D. Leucona, Mayor.

BRIDGE AND RAILWAY.—British India.—The Burma Rys. Co. proposes to build a bridge over the River Irrawaddy at Sagaing to connect with the Rangoon Toungoo-Mandalay Ry. The Mandalay-Kunlong Extension up to Lashio (178 miles) is the only line the Burma Rys. Co. has now in hand, besides the Latpadan-Henzada-Bassein. G. Deuchers, Ch. Engr., Maymyo, India; Lt. Col. A. G. Begbie, R. E., Mgr. Dir., 239 Gresham House, London, E. C.

CANAL WORK.—Brussels, Belgium.—We are informed that the scheme of the contract for constructing on the Canal du-Centre three lifts from Thieux to Houdeng, has been submitted to the minister of public works. The masonry of these three installations are ready and the metallic part only has to be built, which has been estimated at about $600,000, according to the present prices of iron. The first lift built cost $160,000. Three years are expected to finish the three lifts and the various installations.

WATER POWER PLANT.—Guantanamo, Cuba.—We are informed that a company is about to be organized to build a water-power plant at a point nine miles from Guantanamo, where there is a fall of about 600 ft. The stream will develop 1,500 HP., which will be electrically transmitted to the sugar estates in the vicinity and to Guantanamo. Mr. Eduardo Chibas, M. Am. Soc. C. E., Gen. Mgr. and Ch. Engr. Guantanamo Ry., will have charge of the work and of letting the contracts. Mr. Chibas is now in New York, and may be addressed at 220 West 57th St.

ROLLING STOCK, ROAD MATERIALS, ETC.—Vienna, Austria.—Reports state that the Southern Austria Ry. Co. proposes to purchase at an early date a large amount of rolling stock. About $1,600,000 will be spent for rolling stock, and about $4,400,000 for materials, of which $2,000,000 will be for rails, as the line will be extended in the Tyrol. Dr. A. Eger, Gen. Dir., Vienna; L. A. Golsdorf, Mech. Engr., Vienna.——The royal state railway administration, Vienna, proposes to build a railway through Bosnia into Turkey, according to reports. M. Pichler, Ch. Construction Dept., Vienna.

COLD STORAGE PLANTS.—Dublin, Ireland.—Reports state that the Irish Sterilized Milk & Cold Storage Co., Ltd., just incorporated with a capital of $75,000, will build a cold storage plant at once.——J. M. Smart, Produce Exchange Bldg., New York, is reported to have been engaged to consider the practicability of operating a line of steamers equipped with cold storage plants between New York and an English port. The Southampton Cold Storage & Lairage Co., Southampton, Eng., is not interested, as has been reported.——The Melbourne council, Melbourne, Victoria, proposes to extend its cold storage plant, at a cost of $200,000. Sir Malcolm M'Eacharn, Mayor.

RAILWAYS.—France.—Bids are asked by the Prefecture of the Seine, Public Works Administration, Paris, until Oct. 27 for furnishing the materials and for constructing the Metropolitan circular line between the Place de l'Etoile and the Place de la Nation. The line will be divided into nine contracts, ranging in length from 534.86 to 1,743.50 meters, total about 12,000 meters, about seven miles; estimated cost, $5,000,000.——Bids are asked by M. Draux, Engr.-in-Ch. Bridges, 23 Avenue de la Colonne, Angouleme, France, until Nov. 6 for work and materials for sections 5 and 6 of the St. Eloy & Pauniat Ry. Sec. 5 to cost about $75,000; security, $2,700; Sec. 6, cost about $333,000; security, $11,200.

TRAMWAYS.—Bangkok, Siam.—Our correspondent under date of Sept. 7 writes us that A. Westenholz has just secured a concession for about five miles of new electric tramway. He has effected a consolidation with the present electric line six miles long, so that the present central lighting plant and the tramways will be operated as the Siam Electricity Co., Ltd., with a capital of $550,000, gold. The light plant will require some new machinery, as well as new rails, ties, conductors, etc. The old 6-mile line is to be rebuilt and new rails will therefore be required. Work will be begun at once. The headquarters of the company are at Copenhagen, Denmark.

RAILWAY.—Haiti.—Gen. Brenor Prophete, of Port au Prince, Haiti, has been granted a 50-year concession to build a railway from Port au Prince to Salt Lake, about 50 miles north. The line will pass along the plains of Cul de Sac, covered with forests of valuable woods. The state will grant a guaranty of 6% per year on the actual cost per kilometer. Work must be begun in nine months from date of contract. Gage, 30 ins.; weight of rails, 35 lbs. a yard; weight of locomotives, 25 tons. The materials will be exempted from duties. A telephone or telegraph service will have to be built by the contractor. U. S. Vice-Consul General Battiste, Port au Prince, reports that General Prophete will make efforts to secure the funds in the United States.

WATER-WORKS, ETC.—Johannesburg, Transvaal.—Lord Roberts Concessions Commission is considering applications from several towns for authority to build water-works, electric plants, tramways, market houses, etc.——It is said that the Primrose gold mine, Pretoria, will put in a pumping plant, as will also a number of other mines. A 25-mile 12-in. pipe line, and an 8,000,000-gall. pumping plant will be built at once by the Mines Water Supply Syndicate, Ltd., of Johannesburg, who is building the Vaal River water supply works. Most of the materials have been furnished by American companies. Other extensions are also proposed. The engineer is said to be an American.——The town council of Indue, Cape Colony, proposes to build water-works to cost $25,000.——A new diamond field is said to have been discovered in the May district near Postmantown.

ELECTRIC PLANTS, WATER-WORKS, ETC.—The town of Ernee (Mayenne), France, proposes to build an electric plant to cost $20,400.——M. Pantier, Elec. Engr., Angouleme, France, has secured a concession to light Chabannais for 30 years.——The minister of interior, Athens, has authorized the Societe Hellenique d'Electricite to construct new works at the New Phalere, Greece, to cost $800,000.——We are informed that the contract will soon be placed at the Bureaux des Chefs de Service, Avenue des Voyageurs, Arlon, Belgium, for constructing a reservoir and mains for the water supply of Houyet Station, to cost $81,000.——Bids are asked by the engineer of the Commercial Court, Faubourg, Saint Honore 34, Paris, until Nov. 15, for building a bridge at the docks of St. Ouen to cost $13,000.

BRIDGES.—Honolulu, H. I.—The following bids were received Oct. 2 by J. A. McCandless, Supt. Dept. Pub. Works, Honolulu, for two bridges: School St., furnishing metal only, f. o. b. docks, Honolulu: Honolulu Iron Works, $7,137; Catton & Neill, $9,980; J. H. Wilson, $5,379; to erect and complete ready for use, Cotton Bros. & Co., Oakland, Cal., $9,214; J. H. Wilson, $9,231 Beretania St., Honolulu Iron Works, $8,342; Catton, Neill & Co., $10,780; J. H. Wilson, $6,665; bridge complete, Honolulu Iron Works, $11,064; Cotton Bros & Co., $9,987; J. H. Wilson, $10,476; total for two bridges, metal only, f. o. b. docks, Honolulu Iron Works, $15,479; Catton, Neill & Co., $20,760; Cotton Bros. & Co., $11,215; San Francisco Bridge Co., $13,359; J. H. Wilson, $12,044; furnishing metal and erecting, Cotton Bros & Co., $19,201; J. H. Wilson, $19,707; San Francisco Bridge Co., $19,768.

RAILS, MATERIALS, ETC.—Java.—Press reports state that the government of Holland, through Gen. Gerard Alpherts, Ch. Bureau Technique in the administration of the colonies, and C. W. Weys, Engr. Water-Works in the India Netherlands, both at The Hague, Holland, has placed an order with the Carnegie Steel Co., Pittsburg, for 12,000 tons of steel rails. Mr. Alpherts, in speaking of the order, said that his government was beginning a new system of development in its colonies in India and Java, and that its projects contemplated the expenditure of millions of dollars, much of which he thought would come to the United States. Messrs. Alpherts and Weys are in the United States inspecting railway equipment and water-works machinery, and to make some purchases. About 3,000 miles of railway are to be built in Java, and a large number of water-works plants established. Gen. Alpherts and Mr. Weys may possibly be reached by addressing them in care of the Carnegie Steel Co., Pittsburg.

ELECTRIC PLANTS AND TRAMWAYS.—England.—It is stated that the following places propose to build electric light plants: Wisbech, pop., 10,000, A. H. Plowright, Surv.; Maidstone, pop., 35,000, T. F. Bunting, Surv.; Northfleet, Southgate, Wellington, Buxton, pop., 10,000, W. H. Grieves, Surv.; and Pontypridd (Wales), and by the Northern Counties Electricity-Supply Co., Newcastle-upon-Tyne, etc. The following places are among those that proposes to build electric tramways or extensions: Bridlington, to cost $200,000, E. R. Matthews, Surv.; West Hartlepool, about $100,000, J. W. Brown, Engr.; Dudley, $400,000, John Gammage, Surv.; Middleton, $225,000, Wm. Welburn, Surv.; Chatham, about $500,000, C. Day, Surv.; Poole, about $200,000, J. Elford, Surv.; Southend-on-Sea, $200,000; J. B. Mitchell, Elec. Engr.; Bradford and Leeds, $125,000, A. H. Gibbins, Elec. Engr.; Doncaster, $170,000, W. H. R. Crabtree, Surv.; Rhyl, $125,000, A. A. Goodall, Surv.; West Manchester, $100,000; Llandudno, $300,000, London United Tramways Co., Ltd., J. C. Robinson, Engr.; London, $250,000. In our issues of Feb. 15 and 22, Aug. 2, Sept. 6, and Oct. 4 may be found further notes about proposed electrical work in Great Britain.

RAILWAYS, ETC.—Queensland.—The English syndicate, which recently took over the Chillide coal property, 52 miles from Gladstone, will soon ask Parliament for authority to build a tramway from the mines to Gladstone. The Glassford Mining Co. and the Callide Coal Syndicate, Ltd., also propose to build tram lines from Glassford Creek to Gladstone. The Queensland government proposes to build soon a railway 67 miles long to connect Gladstone with Brisbane, Rockhampton and Longbeach. Gladstone is suggested as a good site for iron foundries, docks and shipyards. The Queensland Silver Lead Mines Co., Ltd., has applied for authority to build a tramway 120 miles long. Bills have been presented to the assembly to authorize the construction of a line from Port Norman, by way of Normanton, to Cloncurry, and for other purposes; to authorize the Mount Garnet Freehold Copper & Silver Mining Co., Ltd., to construct a line of tramway from Halpin's Creek to Mount Garnet, connecting with the Mareeba to Chillagoe Ry.; and to authorize Robt. Herberison, of Glassford Creek, and Vincent Mackay Dowling, of Rockhampton, to construct and maintain a tramway from Glassford Creek to Miriam Vale, connecting with the North Coast Ry. H. C. Stanley, Ch. Engr. Government Rys., Brisbane; W. H. Nesbit, Ch. Mech. Engr.

SEWERAGE SYSTEM.—Havana, Cuba.—Our correspondent informs us that the Ayuntamiento on Oct. 11 accepted plans for the sewerage and paving of Havana as prepared by the department of engineering, and will at once ask for bids. The contract is to be under the old Spanish laws, and the right of tanteo is to be reserved to Col. M. J. Dady, 350 Fulton St., Brooklyn, N. Y., who still has some rights in the contract as granted by Spain. The right of tanteo gives the holder the option of taking the contract at the lowest bid, though it may be that of another. The work will cost about $9,000,000. On Oct. 17 our correspondent wrote us as follows: A committee of the Ayunfamiento is preparing a form of contract for the construction of a sewerage system and street paving on the basis of the specifications prepared by the engineer department. As soon as this committee reports it is the intention to call for bids, the plans to be shown in New York city for the inspection of intending bidders. There seems to be some doubt as to whether Colonel Dady is to have the right of tanteo or not. The opponents of Colonel Dady in the Ayuntamiento claim that unless he can show that the plans as submitted by the engineering department are a modification of his plans, he is not entitled to the right. The department desires plans and specifications for pumping engines to be constructed for the system. Lieut. W. J. Barden, U. S. Engrs., Ch. Engr. of Havana. Press reports state that the council is in favor of securing a loan of $25,000,000 from Senor d'Armas for public works.

RAILWAYS, ELECTRICAL GOODS, ETC. — South Africa.—J. G. Stowe, U. S. Consul at Cape Town, in a long note to the state department, reports that there will be a large amount of new work contracted for in the next two years in the Orange River Colony and the South African Republic. Large amounts of supplies will be required. For hundreds of miles the fences are down and are so badly twisted that they cannot be used again. Iron posts will also be required. The government must fence anew along the lines of the railways. The Imperial Government is building railways from Pretoria and Johannesburg to the Orange River Colony border, and engines and cars will soon be needed. Over 1,000 freight cars have been ordered by the Cape colonial railways. A new railway is being built from Harrismith, Cape Colony, to connect with the Orange River Colony Ry., so that there will be two competing lines from the seaports in Cape Colony and Natal to Johannesburg, breaking the monopoly of the Netherlands Ry. in the South African Republic, with its 200% profit per year. The new railways will provide sidings for all the mines in Johannesburg, these being very much needed. The bridges over streams and culverts have been destroyed, with few exceptions, and temporary structures erected, and deviations of tracks to reach the lower levels were made. As a result, a demand for bridge material, such as girders, etc., may be expected. Electric and telegraphic materials and supplies will also be wanted. Coal machinery and household and house-building supplies will be needed. Lord Roberts in August appointed an advisory committee to assist him in opening Johannesburg to trade to arrange for the return of the mining population and to arrange for the municipal administration. A large amount of electrical and other machinery will be required at an early date for the mines, cities, etc. New schemes will be taken in hand, new districts developed, and for these the machinery will be wanted at once. Orders for millions of dollars' worth of new material will be given out in the next two years, not only for the mines but for towns,

which will increase rapidly in size. Mr. Stowe suggests that American firms send representatives to study the markets, ascertain its needs and bring samples with them, and not simply send catalogues or price lists. A large amount of American machinery is now in operation and is being maintained by American engineers, sent over for the purpose. The following are the railways of South Africa: Netherlands South Africa Ry., Heerengracht 2?0, Amsterdam, Holland, M. E. H. Breuning, Ch. Engr., Pretoria, South African Republic; Northern Ry., H. Evan Thomas, Secy., Dock House, Billiter St., E. C., London; M. Vanden Brocke, Ch. Engr., Komati Poort, Transvaal; Pretoria-Pietersburg R. R., P. H. Rogers, Secy., 13 Austin Friars, London, E. C.; Geo. Mayo, Gen. Mgr., Pretoria; Natal Government Rys., D. Hunter, Gen. Mgr., Durban, Natal; M. W. Carr, Consult. Engr., 26 Victoria St., Westminster, London; Natal-Zululand Ry., J. W. Shores, Ch. Engr., Maritzburg, Natal; E. N. Dawe, Secy., Finsbury House, Bloomfield St., London, E. C.; Imperial Military Rys., E. Cruttwell, Consult. Engr., 14 Delahay St., Westminster, London; G. D. Atherstone, Ch. Engr., Bloemfontein, Orange River Colony; Cape Colony Government Rys., G. B. Elliott, Gen. Mgr., Cape Town; Sir Douglas Fox, Consult. Engr., 28 Victoria St., S. W., London; Cape Copper Ry., 9 Queen St. Pl., London, E. C.; Edward Hodge, Ch. Engr., Ookiep, Cape Colony; Grand Junction Ry., 17 Philpot Lane, London, E. C.; New Cape Central Ry., R. Elliott-Cooper, Consult. Engr., The Sanctuary, Westminster, London; Ernest Cadby, Gen. Mgr., Swellendam Station, Cape Colony. The Chambers of Commerce of Cape Town, East London, Kimberly and Pt. Elizabeth, in Cape Colony, Durban and Pietermaritzburg, in Natal; Bloemfontein, in Orange River Colony, and Johannesburg and Barberton, in the Transvaal, may be addressed. F. S. Williamson, Inspector for Cape Government Rys., 257 Broadway, New York. The London "Express" for Oct. 17 published a special article dealing with the contracts which America is likely to secure to rebuild railways in South Africa through the energy of Lieut.-Col. E. P. C. Girouard, Dir. Gen. Imperial Military Rys., Bloemfontein. It gives full details as to the way in which the ground was prepared beforehand for securing the contracts. The article gives statements by Senator Depew and J. K. Cullen, confirming the reports that America is likely to secure the contracts. It is said that Lt.-Col. Girouard has given advance information concerning the amount of material wanted and the work to be done on the rebuilding of the South African railways to the Union Bridge Co., 1 Broadway, New York; the Carnegie Steel Co., Pittsburg, Pa.; the Niles Tool Works, Niles, O., 138 Liberty St., New York; the Baldwin Locomotive Works, Philadelphia, and the Lake Erie Engineering Co., Buffalo, N. Y. Jos. Westwood & Co., Ltd., Engrs. and Contractors, Napier Yard, Millwall, London, E., state that already over $500,000 worth of bridge work for the Uganda district alone has been let to Americans by the British government. Sir Walter Peace, Natal Agent General, 26 Victoria St., London, S. W., states that as time is important in all the contracts the work must be let to the bidders who will guarantee the quickest delivery. The Cape Town correspondent of the London "Daily Mail" reports that despite denials he learns that large orders for coal trucks to be used in the Transvaal have been placed in the United States, at prices for delivery, which are 20% below English prices, while the Americans have contracted to deliver in half the time required by the English. The Transvaal military railways have placed an order for tank engines to the value of $1,250,000 with English firms, although the prices are 20% over American quotations. The great drawback to English work is delay in delivery. The American Bridge Co., 100 Broadway, New York, is said to be figuring on a bid involving about 8,000 tons of bridge material. Bids for other bridge and railway work are being considered both in London and in South Africa. U. S. Consul-General Stowe sends from Cape Town, Aug. 31, copy of a circular issued by a Rand firm to mining companies, saying that, in view of the scarcity of rolling stock, the director of railways proposes the purchase in England or elsewhere of 15 60-ton engines of similar pattern to those recently ordered by the Natal Government Rys., the cost to be about $19,466 each; also of 200 30-ton flat-bottomed steel trucks with bottom openings, of a type suitable for the conveyance of general goods, to cost about $1,946 or $2,433 each. Mr. Stowe adds: The chamber of mines has been discussing the question to the end that orders may at once be placed. Tenders have been asked for from United States manufacturers, and the bids are much lower than those from England. The time of delivery is also in favor of the former—13 weeks against about 6 months. A bill that is before the Legislatve Council and House of Assembly of Cape Colony, Cape Town, provides for acquiring, equipping and maintaining the following railways: Indwe Ry., Cape Collieries Ry., Oudtshoorn-Klipplaat Ry., Somerset East-King William's Town Ry., Mossel Bay-Oudtshoorn Ry., Port Elizabeth-Avontuur Ry., and a line not yet built to run from Kalabas Kraal or Malmesbury to Hopefield via Darling. For the purchase of these roads about $5,600,000 will be appropriated, and when the preliminaries are settled it is likely that larger sums will be expended in improving and extending the systems. The Boers are reported as continuing the tearing up of the railways and cutting the telegraph and telephone wires in the Transvaal.

CONTRACT PRICES.

ROAD.—Somerville, N. J.—The following bids were received Oct. 22, 1900, for constructing 7.93 miles of public road,as advertised in Engineering News; Joshua Doughty, Jr., County Engr., Somerville; 15,729 cu. yds. of excavation to be included in bid for pavement; contract let to Wm. Hardgrove; (1) is for 10-in. telford pavement, 43,146.66 sq. yds.; (2) 8-in. macadam pavement, 13,111.11 sq. yds.; (3) 4-in. tile drain, 4,000 lin. ft.; (4) side ditches, 32,600 lin. ft.:

	1.	2.	3.	4.	Total.
J. Seine, Newark, N. J...	$0.59½	$0.58	$0.10	$0.05	$35,306
C. J. Gummersbach*.....	.53	.53	.12	.02	30,949
J. H. Hurley, Trenton,N.J.	.65	.75	.20	.10	41,939
J. E. Hillpot, Bound Brook	.78	.69	.20	...	43,501
C. M. Meeker, Plainfield ..	.70	.60	.11	.02	39,161
M. Hurley, Trenton, N. J..	.75	.73	.12½	.05	42,594
J. Nolan, Middlebush, N.J.	.76	.67	.18	...	42,295
Osborne & Marcellus Co.†	.66⅔	.66⅔	.20	.02	38,957
Richards Bros,Raritan,N.J.	.51	.51	.09	.025	29,866
H. S. Osborne,Newark,N.J.	.83	.83	.20	.02	48,146
W. F. McGovern, Trenton.	.70	.60	.15	.10	41,929
J. W. Rehill, Somerville..	.60	.60	.18	.045	35,942
W. Hardgrove, Somerville.	.50	.50	.10	.01	28,855
Del. Quarry & Const'n Co‡	.67	.67	.17	.01	38,699

*Bound Brook, N. J. †Upper Montclair, N. J. ‡No. 26 Exchange Place, Jersey City.

VALVES, HYDRANTS, ETC.—Buffalo, N. Y.—The following bids were received Oct. 17, 1900, for furnishing 160 new hydrants, 1,000 hydrant extension pieces, 7,000 brass valves and various sizes of rubber valves: Boston Belting Co., Boston, valves, rubber, 270 at $1,269, 136 at $562, total, $4,439; Revere Rubber Co., $3,822, five-year guarantee; Boston Woven Hose & Rubber Co., $4,097; Leech, Hall & Kemp, rubber valves, 2,870 at $2,340, 7,000 at $311, 400 at $629, total $3,280; Farrar & Trefts, brass valves, 7,000 at $1.25 each, $8,750; Dick Bros, $1.97 each, $13,790; Sherwood Mfg. Co., $7,665; Holly Mfg. Co., $1.67 each; Fries & Co., $1 each, $7,000; J. P. Beyer & Co., $1.21½ each; Chas. F. Ernst, hydrant covers, 1,000 at 72 cts., $720; Wachwirth Bros., hydrant covers, 75 cts., $750; Howard Iron Works, hydrants, 10 6-ft. $36, 100 5-ft. $35, 50 4-ft. $34; Cayuta Wheel & Foundry Co., hydrants, 10 6-ft., $36.96, 100 5-ft. $36.90, 50 4-ft. $35.90, 3-ft., $33.

SEWERS.—Florence, Colo.—The following bids were received Oct. 15 for constructing a system, as advertised in Engineering News; the contractor is to accept local improvement bonds at par in payment; average depth, 11½ ft.; contract awarded The Piper Bros. Co.; A. B. McFall, Cy. Engr.:

Bids Received at Florence, Colo., Oct. 15, 1900, for Construction of a Sewerage System.

Quantities.	The N. P. Glann Const'n Co., Chicago.	M. A. Talbott & Co., Logansport, Ind.	The Morrison Con. & Mfg Co., Dulce, N. Mex.	Jackson, Bokery & Co., Cedar Rapids, Ia.	Frank Taylor, Pueblo, Colo.	John M. O'Rourke, Denver, Colo.	The Piper Bros. Co., Pueblo, Colo.
8-in. pipe sewer, complete.....17,750 lin. ft..	$0.93	$0.70	$0.87	$0.79	$0.68	$0.75	$0.60
10-in. " " " ..... 4,050 " "	1.04	.85	1.13	.85	.80	.90	.72
12-in. " " " ..... 4,739 " "	1.12	.99	1.24	1.00	.89	.90	.84
15-in. " " " ..... 670 " "	1.27	1.20	1.42	1.20	1.02	1.00	1.05
18-in. " " " ..... 2,780 " "	1.04	1.60	1.80	1.70	1.45	1.25	1.36
21-in. " " " ..... 800 " "	1.92	2.17	2.21	2.15	1.50	1.60	1.95
24-in. " " " ..... 1,320 " "	2.17	2.56	2.55	2.70	1.70	1.85	2.35
6-in. flushtanks ..... 20 each...	50.00	100.00	80.00	75.00	90.00	80.00	50.00
Manholes ..... 50 " ...	30.00	80.00	63.00	50.00	50.00	37.00	60.00
Lampholes ..... 14 " ...	3.00	30.00	40.00	10.00	14.00	15.00	15.00
Total	$38,102	$37,346	$42,295	$37,158	$32,182	$32,750	$31,863

EXTENDING WATER-WORKS.—Norwich, N. Y.—The following bids were received Oct. 16, 1900, for about two miles of water main extension, as advertised in Engineering News; (1) average 5 ft. deep, 14 ins., 6,200 lin. ft.; (2) average 11.2 ft. deep, 16 ins., 1,500 lin. ft.; (3) average 20 ft. deep, 18 ins., 1,500 lin. ft.; (4) rock per cu. yd.; Armstrong & Newhall Co., Ltd., bid $2.90 per ton additional for delivery of pipe; T. E. Moore adds $1,500 to bid for delivery of pipe; Carrol Ph. Bassett, Engr., Summit, N. J.:

	1.	2.	3.	4.	Total.
Armstrong & NewhallCo.,Ltd*	$0.42	$1.89	$1.99	$1.20	$9,746
H. B. Hooker & Son,Rochester	.60	1.10	4.20	3.00	11,670
Troy Public Works Co.,Utica.	.35	3.00	3.50	1.00	11,920
Antonio Costa, Orange, N. J.	.72	2.75	4.06	3.00	14,679
Thos. Redbing, Perth Amboy.	.80	3.00	3.50	4.00	14,710
Merrick & O'Connor, Syracuse	.57	3.30	5.29	3.50	16,419
Thos. F. Moore, Syracuse....	.59	2.28	5.50	4.00	16,828
Baker & Judson, Gloversville.	.50	3.00	8.00	7.00	19,600
J. N. Scagrist & Co., Utica..	.79	2.50	8.00	3.00	20,648

*New York, N. Y.

BRIDGE SUPERSTRUCTURE.—Cincinnati, O.—The following bids were received by the board of public service Oct. 16 for the superstructure for a bridge over Mill Creek at Spring Grove Ave.; all are local bidders, and contract let to Henry Wellmann, 2841 Stanton St., Walnut Hills, J. D. Harris, Asst. Clk.:

Bids Received at Cincinnati, O., Oct. 16, 1900, for Bridge Superstructure at Spring Grove Ave.

Quantities.	Henry Wellmann.	C. H. Glandorf.	Henkel & Sullivan.	F. H. Kirchner.	Andrew R. Stopper.	Ruehl Bros.	Guy M. Gest.	Thos. Maloney.	H. Dosch & Co.
Concrete ..... 600 cu. yds.	$3,25	$3.00	$3.75	$3.50	$3.25	$2.75	$3.25	$4.00	$2.70
Concrete sewer ..... 40 " "	7.00	5.00	6.00	8.00	7.25	4.50	5.50	6.00	2.00
Masonry ..... 4,300 " "	5.70	6.00	7.00	6.00	5.64	6.10	6.40	6.30	6.80
Coping ..... 1,030 sq. ft...	.75	1.00	1.00	.75	.85	.65	1.25	.75	.60
Piling ....29,000 lin. ft..	.22	.225	.25	.16	.26	.22	.22¾	.17	.12
Timber for piling.....30,000 ft. B.M.	20.00	28.00	25.00	30.00	30.00	23.00	29.00	25.00	21.00
Grading .... 8,000 cu. yds.	.35	.25	.30	.40	.75	.77	.39	.40	.45
Total	$37,293	$38,195	$44,020	$37,733	$41,808	$41,968	$41,565	$39,383	$40,268

CEMENT.—Washington, D. C.—Lt.-Col. A. M. Miller, U. S. Engr, received the following bids Oct. 15, 1900, for furnishing 16,000 bbls. of Portland cement for the new reservoir and aqueduct tunnel, as advertised in Engineering News: Lawrence Cement Co., Harrison Bldg., Philadelphia, $1.85, Dragon; Samuel H. French & Co., Philadelphia, $1.87 bbls., and $1.67 bags, Dexter; Coplay Cement Co., Coplay, Pa., $177; Saylor's; Bonneville Portland Cement Co., R. E. Trust Bldg., Philadelphia, $1.90, Star; Lehigh Portland Cement Co., Allentown, Pa., $1.59¾, Lehigh; Atlas Portland Cement Co., 143 Liberty St., New York, $1.55, Atlas; H. L. Cranford & Co., Washington, D. C., $2.12 bbls., $1.92 bags, Vulcanite; Virginia Portland Cement Co., New York, N. Y., $1.73, Old Dominion; Alpha Portland Cement Co., Easton, Pa., $1.77, Alpha; Addison H. Clark, Baltimore, Md.,$1.85 bbls., $1.52 bags, Krauses. Krauses.

PAVING.—Dallas, Tex.—The following bids were received Oct. 3, 1900, for paving in Elm St.: Barber Asphalt Paving Co., New York: Removing blocks, 6 cts. a sq. yd, $1,791; grading, 4 cts. a sq. yd., $1,195; laying sheet asphalt pavement, with concrete foundation No. 1, $2.40 a yd., $71,648; laying sheet asphalt pavement with concrete foundation No. 2 $2.20 $65,678; concrete No. 1, under crossing, switches, frogs, etc., $6.85 a cu. yd., $171; concrete No. 2, under crossing, switches, frogs, etc., $5.50, a yd., $138; new curbing furnished and set, 56 cts. a lin. ft.; old curbing reset, 16 cts., a ft.; hauling excavated material for each 160 ft. over 2,500 ft., 4 cts. a cu. yd. The same company bid for paving the street railway's portion as follows: Removing blocks, 7 cts. a sq. yd., $62.80; grading, 10 cts., $889; laying sheet asphalt pavement with concrete foundation No. 1, $2.48, $21,994; same with concrete foundation No. 2, $2.28, $20,220; concrete No. 1 under crossings, switches, frogs, etc., $6.85, $171; No. 2 under same, $5.50, $137; hauling excavated material for each 160 ft. over 2,500 ft., 4 cts. a cu. yd. Brown & Dabney Co., Dallas: Removing blocks, $1,493; grading, $2,985; laying rock asphalt, with concrete foundation No. 1, $70,156; for laying rock asphalt, with concrete foundation No. 2, $62,095; for street railway portion—removing blocks, $443; for grading, $889; laying rock asphalt with concrete foundation No. 1, $21,285; same with No. 2, $18,979; 25 cu. yds. concrete No. 1, $715; same of No. 2, $150. Texas Asphalt Paving Co., San Antonio: Removing blocks, 10 cts.; grading, 12 cts.; laying rock asphalt with concrete foundation No. 1, $2.80; same with No. 2 foundation, $2.65; new curbing, 65 cts.; resetting old curbing, 16 cts.; overhaul for each 160 ft. additional, 5 cts. For street railway portion—removing blocks, 10 cts.; grading, 12 cts.; laying rock asphalt with concrete foundation No. 1, $2.80; same with No. 2 foundation, $2.65; No. 1 concrete under crossings, frogs, switches, etc., $7.90 a cu. yd.; No. 2 under same, $6.95:.

BRICK SEWER.—St. Joseph, Mo.—Patrick Morley submitted the following lowest bid on Oct. 3, 1900, for a brick sewer in Sycamore St., 5-ft. sewer, $3.95 a ft.; 4½-ft. sewer, $3.70; manholes, $15 each; inlets, $24 each.

INDUSTRIAL NOTES.

THE GATES IRON WORKS, Chicago, is said to have secured contracts for a complete gold mill for the island of Borneo and another order for a cement plant in Hong Kong, China.

THE SLOSS-SHEFFIELD IRON & STEEL CO., Florence, Ala., shipped this week 1,000 tons of pig iron to Manchester, Eng. Two weeks ago it shipped 1,000 tons to Glasgow, Scotland.

THE DETROIT VALVE & WASHER CO., Detroit, Mich., announces that it recently received an order from the government for hydraulic valves, and that it is now figuring with a Canadian concern for 6,000 7-in. crimped packings.

THE AMERICAN CAR & FOUNDRY CO., 71 Broadway, New York, has received an order from Spain for 100 freight cars, following closely upon several smaller shipments the company has made to Spain, New Zealand, etc. More orders are expected from the latter country.

A. LOUIS VERMANDEL, Civil Engineer, 31, Square Gutenberg, Brussels, Belgium, has formed a partnership with Jacques Gevers, C. E., Antwerp, and they have opened an office at the above address as manufacturers' agents. They will translate catalogues and circulars into French or German.

O'BRIEN & SHEEHAN, New York, the contractors building the branch of the Rutland-Canadian R. R. between Burlington, Vt., and Rouses Point, N. Y., are said to have had an injunction served against them on account of a dispute about the terms of the contract and the payment for the work already done.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, Pa., has secured contracts from the C., B. & Q. R. R. Co. for 30 freight locomotives, known as the "Prairie" type, and are to be delivered by March, and for 32 locomotives for the Union Pacific R. R. Co. The locomotive works has also an order from the Chicago Great Western R. R. for 10 engines.

THE GOULDS MFG. CO., of Seneca Falls, N. Y., has nearly completed its new buildings for the manufacture of power pumps and the shafting, machinery, electric cranes, etc., are being put in. Especial care has been taken in the plans for the ventilation of the buildings and in the sanitary arrangements, which include shower baths for the use of employees.

THE WESTINGHOUSE AIR BRAKE CO. held its annual meeting on Oct. 2, and the reports presented showed the following financial results for the year: Gross income, $8,530,905; disbursements, $5,011,706; net profits, $3,519,199. Of the disbursements $476,996 covered the purchase of valuable patents on electric braking and heating apparatus for street cars and expenditures on improvements to the company's manufacturing plants. The company is about to place on the market its new street car brake and it will also handle the Westinghouse friction buffer. Mr. E. M. Herr, M. Am. Soc. M. E., general manager of the company, was elected a member of the Board of Directors to succeed the late T. W. Welsh, and Mr. Henry W. Oliver to succeed the late A. M. Byers.

EXHIBIT AT THE ST. LOUIS CONVENTION OF THE ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.

STANDARD PAINT CO., Chicago, Ill.—Samples of roofing material, preservative paints, etc.

S. A. HASELTINE, Springfield, Mo.—Model of the Turner coal chute for railway coaling stations.

PAUL DICKINSON, Chicago, Ill.—Cast iron chimneys and ventilators for roundhouses and other buildings.

JOS. DIXON CRUCIBLE CO., Jersey City, N. J.—Samples of pencils for marking timber, keeping records, etc.

ALDEN SPEARE'S SONS CO., Chicago, Ill.—Samples of asbestine paints, metal polish, weatherproof and fireproof paint, etc.

AMERICAN HOIST & DERRICK CO., St. Paul, Minn.—Samples of shafts and gearing, and photographs of hoisting derricks, etc.

HEATH & MILLIGAN MFG. CO., Chicago, Ill.—Preservative paints for ironwork exposed to the action of the air, and of smoke or gases, etc.

FAIRBANKS, MORSE & CO., Chicago, Ill.—Circulars and catalogues of gasoline engines, pumping plants and air compressors for water stations, bridge work, etc.

M. M. BRICK MFG. CO., St. Louis, Mo. (Agents for the Light Inspection Car Co., Hagerstown, Ind.).—Inspection cars of bicycle construction, with tube frames and wire spoke wheels.

DREXEL RAILWAY SUPPLY CO., Chicago, Ill.—The "Gibraltar" bumping post, having the post heavily braced by inclined rails.

The New Advertisements on Page XXI ("Wants") and Pages XXII--XXIII ("For Sale") May Interest You.

THEY GROW——Possibly They Bring Results——TRY THEM

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